<u>American</u>	Ha	rt's-tongue Fe	<u>rn</u>	Stat	us	Threa	atened (19	89)	54	4 FR 29726
Scientific Na	me	Asplenium scolopend americanum	drium var.		Critica	al Habitat	: N/A		ı	
				Habit	at¹					
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas
No No No No Yes									Yes	
	•			States Re	levant					
IL		IN	M	11	M	N	OH	1		WI
			X	(
		Н	igh-Risk F	Response A	ctions an	d Activit	ies			
		May affect, not likel	y to advers	ely affect du	e to insig	nificant o	discountable	effects		
				Upland /	Areas					
				Waste Ha	ındling					
	M	lay affect, not likely to	adversely a	affect due to	implemer	ntation of	BMPs to minir	nize impa	ct	
				Upland /	_					

- Booming
- Creation/Use of New Access Points
- Creation/Use of Staging Areas (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMP's to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Decurrent	Fa	lse Aster		Stat	us	Thre	atened (19	(88	55 FR 45858	
Scientific Na	me	Boltonia decurrens			Critica	ıl Habita	t N/A			
				Habit	at ¹					
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	nd Streams	Bays Estua		Ponds and Lakes	Wetland	s Upland Areas	
No		No	Yes No			No	Yes	Yes		
				States Re		·			100	
<u>IL</u>		IN	N.	11	M	N	Ol	1	WI	
Х										
				Response Ad						
		May affect, not likel		sely affect du	e to insigr	nificant o				
•	R	ivers and Streams	3				Wetla	inas		
Waste Hand	_	floating or submerged	oil		WasteDetect		g on-floating or s	ubmerged	oil	
		ay affect, not likely to	adversely	affect due to	implemen	BMPs to minir	nize impac	t		
Rivers	and	d Streams		Wetla	nds			Upland	Areas	
Manual removes sediment, debuse of Vehicle Use of machine equipment Creation/Use Creation/Use land) Locating, Sam Air, Land, wat	ng ng non-c ace, non-c exca yal / (oris, c es nery/s of St npling er (ir sonn orage	hemical) sand <1 inch) hemical) sand vation (>1 inch) Cleaning of oil or vegetation supporting ew Access Points aging Area (on g, and monitoring: includes SCAT) el by foot traffic	 Vacuur Sorben Floodin Flushin Steam Sandbl Mecharcleanin Mecharcleanin Manuasedime Use of Use of Creation Creation Locatinn Air, Lar Access Tempo 	Blocking ning ts g Gleaning asting nical (non-ch- g (surface, < nical (non-ch- g and excava removal / Cl int, debris, or Vehicles machinery/su	1 inch) emical) sa ation (>1 i eaning of vegetatio upporting v Access ging Area and mon ludes SC I by foot ti	Points (on itoring:	• Tempora	ary Storage	e (on land)	
		Spec	cial conside	erations need	ed, high l	evel of c	oncern			
			All F	labitats of	Occurre	ence				
		Natural atten	uation: allo	w habitat to r	ecover na	aturally w	hile monitoring	9		
				ВМР						

- 1. 2. 3.

- A wildlife monitoring plan.

 Buffer zones with the concurrence of USFWS.

 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

 When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Dwarf Lak	(e l	<u>ris</u>		Sta	tus	Threa	itened (19)88)	8) 53 FR 37972		
Scientific Na	me	Iris lacustris	•		Critica	al Habitat	N/A				
	Habitat ¹										
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas	
Yes		No	1	No No		0	No	Yes		Yes	
				States R	elevant						
IL		IN	IV	II	M	N	Ol	1		WI	
				(Χ	

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMP's with Services

All Habitats of Occurrence

Dikes or Berms

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Eastern P	<u>rair</u> i	ie Fringe	d Ord	<u>chid</u>	Stat	us	Threa	atened (19)88)	53	3 FR 37972
Scientific Na	me	Platanthera le	ucopha	aea		Critica	al Habita	t N/A			
					Habit	at¹					
Shoreline (beach/land)	Port	s, Canals, Indu Areas	ustrial	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ls	Upland Areas
No		No		Y	'es	N	0	No	Yes		No
					States Re		•				
IL		IN		IV	11	M	N	OH	1		WI
X		Χ		>	(X			X
			Н	igh-Risk F	Response Ad	ctions an	d Activit	ies			
		May affect, r	not likel	y to advers	sely affect du	e to insigi	nificant o	r discountable	effects		
	R	ivers and S	tream					Wetla	nds		
	Detection of non-floating or submerged oil										
	Ma	ay affect, not lil	kely to	adversely a	affect due to	implemen	tation of	BMPs to minir	nize impa	ct	
Rivers and	Stre	eams	١	Netlands	;			Upland	Areas		
	0	n barriers, pits cking	, and tr	enches		•	Tempora	ary Storage (o	n land)		
		May affect	ct, likely	to advers	ely affect – d	iscuss po	ssible BN	/IP's with Servi	ices		
	R	ivers and S	tream					Wetla	nds		
					Dikes or I	Berms					
					ВМР	s					
2. Buffer3. Spill F4. When collect sched habitation	A wildlife monitoring plan. Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.										
USFWS Lead C	Office (Contact:									

Fassett's	Loc	coweed		Stat	tus	Threa	atened (19	988)	53	53 FR 37970		
Scientific Na	me	Oxytropis campestris	var. chart	acea	Critica	al Habitat	t N/A					
Habitat ¹												
Shoreline (beach/land)	Poi	Ports, Canals, Industrial Rivers a		nd Streams	ns Bays and Estuaries		Ponds and Lakes	Wetland	ds	Upland Areas		
Yes		No	1	No No		0	Yes	No	Yes			
				States R	elevant							
IL		IN	IV	11	MN		OH	ОН		WI		
										Χ		

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Flooding
- Deterrence and Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Houghton</u>	<u>'s Goldenro</u>	<u>d</u>	Stati	us	Threa	tened (19	(88	53	3 FR 27134			
Scientific Na	me Solidago hou	ıghtonii		Critica	al Habitat	N/A						
	<u> </u>		Habita	at ¹		•						
Shoreline (beach/land)	Ports, Canals, Inc	lustrial Rivers a	and Streams	Bays Estua		Ponds and Lakes	Wetland	s	Upland Areas			
Yes	No	,	Yes	N		Yes	Yes		No			
			States Re	levant								
IL	IN	MI	ľ	MN		OH	1		WI			
		X										
		High-Risk	Response Ac	ctions an	d Activitie	es						
	May affect,	not likely to adver	sely affect due	e to insig	nificant or	discountable	effects					
Rive	ers and Stream	s		All O	ther Hal	bitats of Od	ccurrence	е				
			 Detection 	ction of no	on-floating	or submerge	d oil					
	tion of non-floating	or		rence or	_				_			
submo	erged oil					taminated spe	ecies or red	cove	ery of			
			contaminated carcasses Temporary Storage (on water)									
	May affect, not l	ikely to adversely	Temporary Storage (on water) sely affect due to implementation of BMPs to minimize impact									
Riv	ers and Stream					bitats of Od						
			Boom									
trench	ruction barriers, pit	s, and	Dikes Cons Culve Skimi Vacui Sorbe Flood Flush Stear Sand Mech Manu Reco Conta Use C Creat Acces Waste	s or Berm truction b ert Blockir ming uming ents ling ing m Cleanir blasting anical (no	arriers, pit ag on-chemic on-chemic al / Cleani on-floating of non-float s ery/suppo of New Acc of Staging connel by f	ing of oil sedir or submerge ting or subme rting equipme cess Points Area (on land foot traffic	ning (surfa ning and e: ment, debri d oil erged oil	xcav	vation (>1 inch)			
		Special consid	lerations need									
Riv	ers and Stream	1				bitats of Oc						
	N/A					itat to recover toring: air, lar	•		•			
			ВМР	s								
2. Buffer 3. Spill F 4. When collec sched	llife monitoring plan r zones with the cor Response Plan that installing or placing tion equipment/mat luled/implemented	ncurrence of USF\ has pre-identified g temporary struct terial/structures), e	l staging areas tures or mater ensure constru	ial (i.e., b uction/ded	ooms, ber	rms, dikes, cu on/removal pla	lvert block ans are in p	s, or	other oil e and are			
USFWS Lead O	ttice Contact:											

Lakeside	Dai	sy		Sta	tus	Threa	atened (19)88)	53 FR 23742		
Scientific Na	me	Hymenoxys herbace	а		Critica	al Habita	t N/A				
				Hab	itat¹						
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas	
No		No	1	No No		No	No		Yes		
				States R	elevant						
IL	IN	IV	11	MN		OH	1		WI		
X				(X				

May affect, not likely to adversely affect due to insignificant or discountable effects

Uplands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Uplands

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Uplands

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Leafy Pra	irie	-clover		Stat	us	Enda	ngered (1	991)	56 FR 19953	
Scientific Na	me	Dalea foliosa			Critica	al Habitat	N/A			
				Habit	tat ¹					
Shoreline (beach/land) Ports, Canals, Industrial Areas Rivers and Streams Bays and Estuaries								Wetland	ds	Upland Areas
No		No	1	No	N	0	No	No		Yes
				States Re	elevant					
IL		IN	N	11	M	N	Ol	1		WI
X										
	High-Risk Response Actions and Activities									
		May affect, not likel	y to advers	sely affect du	e to insig	nificant or	discountable	effects		

Uplands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Uplands

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Uplands

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan. 1.
- Buffer zones with the concurrence of USFWS. 2.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Leedy's R	los	<u>eroot</u>		Stat	tus	Threa	atened (20)10)	75 FR 55686		
Scientific Na	me	Rhodiola integrifolia	ssp. leedyi		Critica	al Habitat	t N/A				
Habitat ¹											
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas	
No		No	1	No	N	0	No	No		Yes	
				States R	elevant						
IL	·	IN	N	II	MN		Ol	1		WI	
					>	(
			inh Diele D) A	4!	-I A -4114					

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Creation/Use of New Access Points
- Creation/Use of Staging Areas (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS. 2.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Mead's M	ilkv	veed		Sta	tus	Threa	itened (19	88)	53	FR 33992
Scientific Na	me	Asclepias meadii			Critica	al Habitat	N/A			
	Habitat ¹									
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	and Streams I		Ponds and Lakes	Wetland	ds	Upland Areas	
No		No	1	No	o No		No	No		Yes
				States R	elevant					
IL		IN	N	II .	М	N	OH	1		WI
X X										Χ

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Michigan Monkey-Flower **Endangered (2010)** 75 FR 55686 **Status** Scientific Name | Mimulus michiganensis Critical Habitat N/A Bays and Shoreline Ports, Canals, Industrial Ponds and Wetlands Rivers and Streams **Upland Areas** (beach/land) Estuaries Lakes Areas No No No Yes No No Yes States Relevant WI IL IN MI MN OH Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Detection of non-floating or submerged oil Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses Temporary Storage (on water) May affect, not likely to adversely affect due to implementation of BMPs to minimize impact All Habitats of Occurrence Booming Dikes or Berms Construction barriers, pits, and trenches Culvert Blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Waste Handling Temporary Storage (on land) Decontamination Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) BMPs A wildlife monitoring plan Buffer zones with the concurrence of USFWS. 2. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil

collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their

habitats.

USFWS Lead Office Contact:

Minnesota Dwarf Trout Lily **Status Endangered (1986)** 51 FR 10521 Scientific Name Erythronium propullans **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Ponds and Bays and Rivers and Streams Wetlands **Upland Areas** (beach/land) Areas Estuaries Lakes No No Yes No No No Yes States Relevant IL IN MI MN ОН WI Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects Rivers and Streams **Upland Areas** Skimming Skimming Detection of non-floating or submerged oil Deterrence or Hazing Deterrence or Hazing Capture and care of contaminated species or Capture and care of contaminated species or recovery of contaminated carcasses recovery of contaminated carcasses Waste Handling Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Rivers and Streams **Upland Areas** Booming Dikes or Berms Construction barriers, pits, and trenches Culvert Blocking Vacuuming Booming Mechanical (non-chemical) sand cleaning (surface, Sorbents Flooding Mechanical (non-chemical) sand cleaning and Flushing excavation (>1 inch) Steam Cleaning Manual removal / Cleaning of oil sediment, debris, or Sandblasting Mechanical (non-chemical) sand cleaning (surface, vegetation Use of Vehicles Use of machinery/supporting equipment Mechanical (non-chemical) sand cleaning and Creation/Use of New Access Points excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or Creation/Use of Staging Area (on land) vegetation Temporary Storage (on land) Use of Vehicles Decontamination Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Decontamination Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

me Aconitum noveborac	0000				atened (19		3 FR 17910
•	erise		Critic	al Habita	nt N/A		
		Habita	at ¹				
Ports, Canals, Industrial Areas	Rivers ar	nd Streams		and	Ponds and Lakes	Wetlands	Upland Area
No	Y			0	No	No	Yes
INI	IL.						
IIN	IV	11					WI X
	liah-Risk F	Resnonse Ac	rtions ar	nd Activi			
						effects	
	<u> </u>	Joly alloot du	o to maly	oant C			
					Opiana	, 11000	
 Detection of non-floating or submerged oil Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses 			Waste Handling				
	adversely a	affect due to i	imnlemei	ntation of	RMPs to minir	mize impact	
			Implemen	itation of			
 Steam Clearing Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) 						ng Areas (on l y foot traffic	
May affect, likely to	adversely	affect - disc	uss poss	ible BMF	s to minimize	impact	
		Upland A	Areas				
anical (non-chemical) sand	cleaning a	nd excavatio	n (>1 inc				
	May affect, not likely Rivers and Streams and care of contaminate ery of contaminated carcase and Handling May affect, not likely to Rivers and Streams and Streams and Streams are Handling May affect, not likely to Rivers and Streams are Handling May affect, not likely to Rivers and Streams are Handling May affect, not likely to Rivers and Streams are Handling and Streams are Handling uning ents ling ing m Cleaning blasting anical (non-chemical) sand ch) anical (non-chemical) sand ch) anical (non-chemical) sand ch) are moval / Cleaning of oil ation of Vehicles of machinery/supporting equion/Use of Staging Area (or loorary Storage (on land) intamination May affect, likely to blasting anical (non-chemical) sand anical (non-chemical) sand anical (non-chemical) sand anical (non-chemical) sand anical emoval /Cleaning of oil,	High-Risk F May affect, not likely to adverse Rivers and Streams ming stion of non-floating or submerged oil rence or Hazing ure and care of contaminated species ery of contaminated carcasses e Handling May affect, not likely to adversely a Rivers and Streams sing or Berms truction barriers, pits, and trenches ert Blocking uming ents ling ing m Cleaning blasting anical (non-chemical) sand cleaning a vation (>1 inch) all removal / Cleaning of oil sediment, ation of Vehicles of machinery/supporting equipment ion/Use of New Access Points ion/Use of Staging Area (on land) porary Storage (on land) notamination May affect, likely to adversely blasting anical (non-chemical) sand cleaning a valical (non-chemical) sa	High-Risk Response Ad May affect, not likely to adversely affect du Rivers and Streams ming ction of non-floating or submerged oil rence or Hazing ure and care of contaminated species or ery of contaminated carcasses e Handling May affect, not likely to adversely affect due to Rivers and Streams ning or or Berms truction barriers, pits, and trenches ent Blocking uming ents ling ing ing on Cleaning blasting anical (non-chemical) sand cleaning (surface, ch) anical (non-chemical) sand cleaning and vation (>1 inch) all removal / Cleaning of oil sediment, debris, or ation of Vehicles of machinery/supporting equipment ion/Use of New Access Points ion/Use of Staging Area (on land) ororary Storage (on land) intamination May affect, likely to adversely affect – disc Upland A blasting anical (non-chemical) sand cleaning (surface, <1 ir anical (non-chemical) sand cleaning and excavatio all removal /Cleaning of oil, oiled sediment, debris,	High-Risk Response Actions ar May affect, not likely to adversely affect due to insig Rivers and Streams ming stion of non-floating or submerged oil rence or Hazing ure and care of contaminated species or ery of contaminated carcasses e Handling May affect, not likely to adversely affect due to implement Rivers and Streams hing or Berms struction barriers, pits, and trenches ent Blocking uming hing n Cleaning blasting anical (non-chemical) sand cleaning (surface, ch) anical (non-chemical) sand cleaning and vation (>1 inch) all removal / Cleaning of oil sediment, debris, or attion of Vehicles of machinery/supporting equipment ion/Use of New Access Points ion/Use of Staging Area (on land) horary Storage (on land	High-Risk Response Actions and Activi May affect, not likely to adversely affect due to insignificant of Rivers and Streams mining stion of non-floating or submerged oil rence or Hazing ure and care of contaminated species or ery of contaminated carcasses e Handling May affect, not likely to adversely affect due to implementation of Rivers and Streams mining and adversely affect due to implementation of Rivers and Streams mining and cleaning surface, sch) anical (non-chemical) sand cleaning (surface, sch) anical (non-chemical) sand cleaning and validion (>1 inch) all removal / Cleaning of oil sediment, debris, or attion of Vehicles of Mew Access Points ion/Use of Staging Area (on land) norary Storage (on land) mamination May affect, likely to adversely affect — discuss possible BMF Upland Areas blasting anical (non-chemical) sand cleaning (surface, <1 inch) anical (non-chemical) sand cleaning and excavation (>1 inch) anical (non-c	IN	IN

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Pitcher's Thistle **Status** Threatened (1988) 53 FR 27137 Scientific Name Cirsium pitcheri **Critical Habitat** N/A Habitat1 Bays and Shoreline Ports, Canals, Industrial Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Areas Estuaries Lakes Yes No No No No No Yes States Relevant IL IN MI MN ОН WI Χ Χ Χ Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects **Upland Areas** Shorelines Deterrence or Hazing Deterrence or Hazing Capture and care of contaminated species or Capture and care of contaminated species or recovery of contaminated carcasses recovery of contaminated carcasses Waste Handling Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Shorelines **Upland Areas** Booming Vacuuming Sorbents Flooding Flushing Booming Skimming Steam Cleaning Manual removal / Cleaning of oil sediment, debris, or Sandblasting Mechanical (non-chemical) sand cleaning (surface, vegetation Use of Vehicles <1 inch) Mechanical (non-chemical) sand cleaning and Use of machinery/supporting equipment excavation (>1 inch) Creation/Use of New Access Points Creation/Use of Staging Area (on land) Manual removal / Cleaning of oil sediment, debris, or vegetation Access of personnel by foot traffic Use of Vehicles Temporary Storage (on land) Use of machinery/supporting equipment Decontamination Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination May affect, likely to adversely affect – discuss possible BMPs with Services Shorelines Dikes or Berms Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) BMPs A wildlife monitoring plan. Buffer zones with the concurrence of USFWS. 2 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure construction/deconstruction/removal plans are in place and are scheduled/implemented to eliminate or minimize impacts to threatened and endangered species and their habitats.

Prairie Bu	Prairie Bush-Clover			Stat	Threatened (198			987)	52 FR 781		
Scientific Na	Scientific Name Lespedeza leptostachya				Critical Habitat N/A						
Habitat ¹											
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds Upland Areas		
No		No	1	No	N	0	No	No	Yes		
				States R	elevant						
IL		IN	N	11	MN OH		WI				
Х					>	<			Х		

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Running E	<u>Suf</u>	falo Clover		Stat	us	Enda	ang	gered (1	987)	52	2 FR 21478
Scientific Nar	ne	Trifolium stolonifera			Critica	al Habita	at	N/A			
				Habit	at ¹						
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers a	nd Streams	Bays Estua		1	onds and Lakes	Wetland	ls	Upland Areas
No		No	`	⁄es	N	0		No	No		Yes
					ites Relevant						
IL		IN	I.	/ II	M	N		OF			WI
		X						X			
				Response A							
		May affect, not likel		sely affect du	e to insigi	nificant c	or dis				
Skimming	F	Rivers and Streams	3		Skimmi			Upland	Areas		
Deterrence or	Haz are card	of contaminated specie casses	es or recov	ery of	Deterre Capture contam Waste	ence or He and ca inated c Handling	Hazir ire of arca	f contamina asses	ated specie	es o	or recovery of
May affect, not likely to adversely affect due to implementation of BMPs to minimize impact											
	F	Rivers and Streams	5					Upland	Areas		
Rivers and Streams Dikes or Berms Construction barriers, pits, and trenches Culvert Blocking Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Menual removal / Cleaning of oil sediment, debris, or vegetation Manual removal / Cleaning of oil sediment, debris, or vegetation Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Decontamination Upland Areas Upland Areas Upland Areas											
		Spec		erations need			conce	ern			
		N1=41 -44		labitats of			le : !	mont			
		Natural atten Locating, sa		ow nabitat to i d monitoring:							
				ВМР							
 Spill Respon When installi equipment/m 	with se P ng c ater	ring plan. In the concurrence of Use the concurrence of Use that has presidention placing temporary strial/structures), ensure mented in a way to elin	ied staging ructures or that constr	material (i.e. ruction/decon	, booms, struction/	berms, d removal	dikes plan	s, culvert bl ns are in pla	ocks, or of ace and ar	ther e	oil collection

Short's Bla	<u>idderpod</u>		Statu	JS	Enda	ngered (2	014)	79 FR 44712
Scientific Nam	ne Physaria globosa			Critic	al Habita	t Designate	ld	
			Habita	at ¹				
Shoreline (beach/land)	Ports, Canals, Industrial Areas	Rivers a	nd Streams		s and uaries	Ponds and Lakes	Wetlands	Upland Areas
No	No	\	res es	١	٧o	No	No	Yes
		1	States Re					
IL	IN	N	ΛI	N	/IN	Oł	1	WI
	X							
	ŀ	ligh-Risk I	Response Ac	tions a	nd Activit	ties		
	May affect, not like		sely affect due	e to insi	gnificant o	r discountable	effects	
	Rivers and Stream	ıs				Upland	Areas	
 Skimming Detection of non-floating or submerged oil Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses Waste Handling 				•	Waste H	Handling		
	May affect, not likely to	adversely	affect due to i	mpleme	entation of	BMPs to minir	mize impact	
	Rivers and Stream				Upland	Areas		
 Constri Culvert Vacuur Sorben Floodir Flushin Steam Sandbl Mecha <1 inch Mecha excava Manua wegeta Use of Creation Creation Tempo 	nts Ing Ing Ing Cleaning asting Inical (non-chemical) sand Inical (non-chemical) sand Ition (>1 inch) I removal / Cleaning of oil	d cleaning (d cleaning a l sediment, uipment ints	and	•	Creation Access Tempor	g n/Use of New A n/Use of Stagir of personnel b ary Storage (o amination	ng Areas (on y foot traffic	
	May affect, likely to	o adversely			sible BMP	's to minimize	impact	
SandblMechal	nical (non-chemical) sand			ıch)				
 Mecha 	nical (non-chemical) sand I removal /Cleaning of oil,							

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Short's G	Short's Goldenrod			Status Endanger			ngered (1	985)	50 FR 36085	
Scientific Na	me	Solidago shortii			Critica	I Habitat N/A				
Habitat ¹										
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar	nd Streams	ns Bays and Ponds and Estuaries Lakes			Wetland	ls U	Ipland Areas
No		No	1	No	N	0	No	No		Yes
				States R	Relevant					
IL		IN	N	11	MN OH			WI		
		Х								

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Small Whorled Pogonia 59 FR 50852 **Status** Threatened (1994) Scientific Name Isotria medeoloides **Critical Habitat** N/A Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Estuaries Areas Lakes No No Yes No No No No States Relevant ОН WI IL IN MI MN Χ Χ Χ

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Tennesse	e P	ondweed		Sta	tus	Unde	r Review	Unlisted		
Scientific Name Potamogeton tennesseensis				Critica	al Habitat	: N/A				
	Habitat ¹									
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Estuaries		Ponds and Lakes	Wetland	ls Upland Areas	
No		No	Y	'es	N	0	No	Yes	No	
				States F	Relevant					
IL		IN	11	M	N	OH	1	WI		
							X		_	

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vessels
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Natural Attenuation allow habitat to recover naturally while monitoring
- Deployment of buoys
- Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decanting
- Decontamination

BMPs

- A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Virginia S	Virginia Sneezeweed			Status Threate			tened (19	98)	63 FR 59239	
Scientific Na	me	Helenium virginicum			Critica	al Habitat N/A				
Habitat ¹										
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes Wetlands Upland			Jpland Areas
No		No	١	No	N	0	No	Yes		No
				States R	elevant					
IL		IN	M	I	M	N	OH W		WI	
							X			

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

- Detection of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Wetlands

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

4.	When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil
	collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are
	scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their
	habitats.

Virginia S	<u>'irginia Spiraea</u>			Sta	Status Threatened (90)	55	5 FR 24241
Scientific Na	me	Spirea virginiana			Critica	al Habitat	bitat N/A			
	Habitat ¹									
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas
No		No	Y	'es	N	0	No	No		No
				States R	elevant					
IL		IN	IV	11	MN OH		WI			
						X				

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Vacuuming
- Sorbents
- SorbentsFlooding
- Flushing
- Steam Cleaning
- Otcam Ocam
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- · Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Natural Attenuation allow habitat to recover naturally while monitoring
- Deployment of buoys
- Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decanting
- Decontamination

BMPs

- A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Western F	Prairie Fringed Or	<u>chid</u>	Stat	us	Thre	atened (19	989)	54	4 FR 39857	
Scientific Na	me Platanthera praeclar	а		Critica	al Habita	at N/A				
			Habit	at¹						
Shoreline (beach/land)	Ports, Canals, Industrial Areas	Rivers a	nd Streams	Bays Estua		Ponds and Lakes	Wetlands		Upland Areas	
No	No	١	⁄es	No No Yes `				Yes		
			States Re							
IL	IN	N	1I		N	O	Н		WI	
				>	<					
	High-Risk Response Actions and Activities									
	May affect, not like	y to advers	sely affect du	e to insig	nificant o	or discountable	effects			
Riv	ers and Streams / We	etlands				Upland	Areas			
Detec	ction of non-floating or subr	merged oil				Waste H	andling			
May affect, not likely to adversely affect due to implementation of BMPs to minimize impact										
Rivers and Streams / Wetlands Upland Areas										
	iing truction barriers, pits, and ti rt Blocking	renches		•	vegetat Creatio Creatio Access Tempor	removal / Clea	Access Poing Area (or by foot traff	nts 1 lar	iment, debris, or	
	May affect, likel	y to advers	sely affect – d	liscuss po	ssible B	MPs with Serv	ices			
		Rivers	and Strea	ms / We	etlands	;				
			Dikes or I	Berms						
	Spec	cial conside	erations need	led, high l	evel of c	concern				
			Upland /	Areas						
						vhile monitorin ncludes SCAT				
			ВМР	's						
 A wildlife monitoring plan. Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. 										
USFWS Lead C	mice Contact:									

Iowa Pleistocene Snail				Status		Endangered (1978		978)	43 FR 28932		
Scientific Name Discus macclintocki				Critical Habita		N/A	N/A				
				Habi	tat¹						
Shoreline (beach/land)	Por	orts, Canals, Industrial Areas Rivers an		d Streams	Bays and Estuaries		Ponds and Lakes	Wetlands		Upland Areas	
No		No	No		N	0	No	No		Yes	
States Relevant											
IL		IN MI		I	MN		ОН			WI	
Х											

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Upland Areas

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

(beach/land) Areas Estuaries Lakes .	<u>Clubshell</u>				Stati	us	Enda	angered (1	993)	58	FR 5638	
Shoreline (beach/land) Ports, Canals, Industrial Areas Rivers and Streams Bays and Estuaries Ponds and Lakes Wetlands Upland (Estuaries) Ponds and Lakes Wetlands Upland (Estuaries) Ponds and Lakes Wetlands Upland (Estuaries) Ponds and Lakes Upland (Estuaries) Ponds (Estuaries)	Scientific Nan	ne	Pleurobema clava			Critica	al Habita	at N/A				
No Yes Yes Yes Yes No No No No No No No N					Habita	at ¹						
IL IN MI MI MN OH WI X X X X X High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Skimming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Steam Cleaning or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floatin		Por		Rivers a	and Streams 1			Wetlands		Upland Areas		
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May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Sorbents Flushing Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning of oil, oiled sediment, debris, or vegetation Containment of non-floating or submerged oil Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged			May affect, not likel	-	-			or discountable	effects			
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Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Standblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water) Ponds and Lakes Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Skimping Skimping Skimming Skimping Skimping Skimping Skimping Skimping Skimping	 Skimm Vacuu Sorber Flushir Steam Sandb Manua debris Detect Recov Contai Deploy 	ning ming nts ng clasti al rer tion ery inme	naning Ing moval /Cleaning of oil, vegetation of non-floating or subn of non-floating or subn ent of non-floating or si nt of buoys v Storage (on water)	Dikes or Berms Construction barriers, dams, pits, a Skimming Vacuuming Vacuuming Sorbents Flooding Manual removal /Cleaning of oil, oil debris, or vegetation merged oil merged oil merged oil submerged oil Containment of non-floating or submer						oil, oiled sediment, ubmerged oil ubmerged oil		
 Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vessels Use of Vessels Deployment of buoys Temporary Storage (on water) 					/ allect – disc	uss poss	ible bivir					
	 Dikes Constr Culver Skimm Vacuu Sorbei Floodii Flushii Steam Sandb Manua debris Detect Recov Contai Use of Use of 	ng or B ruction to block the block to block the block th	erms on barriers, dams, pits ocking g aning ng moval /Cleaning of oil, vegetation of non-floating or subn of non-floating or subn ent of non-floating or si ssels nicles	oiled sedir	ment,		Dikes of Construction Culvert Skimmi Vacuur Sorben Floodin Flushin Steam Sandbl Manual debris, Detecti Recove Contair Use of Use of Deploy	or Berms uction barriers, blocking ing ming its g Cleaning asting I removal /Clea or vegetation on of non-floati ery of non-floati ment of non-flo Vessels Vehicles ment of buoys	ning of oil, ng or subm ng or subm ng or subm nating or su	oiled nerge	d sediment, ed oil ed oil	
Special considerations pooded, high level of concern	Tempo	orary				•			n water)			
Special considerations frequent, flight level of concern			Spec	cial conside	erations need	ed, high l	level of o	concern				

BMPs

- A wildlife monitoring plan
- 2. 3. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Fanshell</u>			Statu	us	Enda	ingered (1	1 (1990) 55 FR 2559		
Scientific Na	me Cyprogenia stegari	<u>l</u>		Critica	l Habita	t N/A	<u> </u>		
	·		Habita	at¹					
Shoreline (beach/land)	Ports, Canals, Industrial Areas	Rivers and	Streams	Bays Estua		Ponds and Lakes	Wetlands	Upland Area	
No	Yes	Yes		No)	Yes	s No		
IL	IN	MI	States Re	levant M	N	OF	OH W		
X	X					X	•	***	
		⊥ High-Risk Res	sponse Ac	tions an	d Activit				
	May affect, not like						effects		
	<u> </u>	All Hal	oitats of	Occurre	ence				
			Waste Ha	ndling					
	May affect, not likely to	adversely affe	act due to i	mnlemen	tation of	RMPs to minin	nize impact		
	way affect, flot likely to	Ports, Ca				DIVII 9 (O ITIIITIII	IIIZE IIIIPact		
 Sorb Flush Steal Sanc Manu Dete Recc Cont Deplo 	uming ents hing In Cleaning blasting In I removal / Cleaning of oiction of non-floating or subvery of non-floating or subainment of buoys	merged oil merged oil	nt, debris, (or vegeta	tion				
• Tem									
• Tem	oorary Storage (on water) May affect, likely	to adversely af	fect – disc	uss possi	ble BMP	es to minimize i	mpact		
• Tem	May affect, likely Rivers and Strean		fect – disc	uss possi	ble BMP	s to minimize i			

Special	considerations	habdad	high	laval of	concern
ODECIAI	CONSIDERATIONS	necucu.	HIIUH	ievei oi	COLICEITI

Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil

Use of Vessels

Use of Vehicles

Deployment of buoys

Temporary Storage (on water)

All Habitats of Occurrence

Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil

Use of Vessels

Use of Vehicles

Deployment of buoys

Temporary Storage (on water)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

at Pocke	tbc	<u>ook</u>		Stat	us	Enda	angered (1	976)	4	1 FR 2406
Scientific Na	me	Potamilus capax			Critic	al Habita	at N/A		1	
				Habit	at ¹		_			
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	Rivers and Streams		and aries	Ponds and Lakes	Wetland	ands Upland	
No		Yes	١	Yes No		0	Yes	Yes No		No
IL		IN	N	States Re		IN	Ol	-	1	WI
X		X		···			- 01	•		***
			liah-Risk F	Response A	ctions ar	nd Activi	ities		<u> </u>	
		May affect, not like						effects		
			<u> </u>	labitats of						
				Waste Ha	ındling					
	N/	lay affect, not likely to	advorsoly	affact due to	implomo	atation of	f PMDs to minir	mizo impa	ct	
	IV	lay affect, flot likely to	-	Canals, In				mze mpa	UL .	
DetectRecovContaDeplo	olasti al rei tion ery inme yme	•	nerged oil nerged oil		or vegeta	ation				
	·	May affect, likely to	o adversely	/ affect – disc	uss poss	ible BMF	os to minimize i	impact		
	R	Rivers and Stream	s				Ponds an	d Lakes		
 Culve Skimr Vacut Sorbe Flood Flush Stean Sandl Manu debris 	or B ruction rt blooming uming ints ing ing olastion al res	on barriers, dams, pits ocking g aning	oiled sedir			Constru Culvert Skimmi Vacuum Sorben Floodin Flushin Steam Sandbla Manual debris,	or Berms Juction barriers, blocking ling lining ts g G Cleaning	ning of oil,	, oile	d sediment,

Deployment of buoys
Temporary Storage (on water)

All Habitats of Occurrence

Deployment of buoys
Temporary Storage (on water)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Higgins E	ye	<u>Pearlymussel</u>		Stat	us	Enda	ingered (1	976)	11 FR 24062
Scientific Na	me	Lampsilis higginsii			Critica	l Habita	t N/A		
	·			Habit	at ¹				
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and F Estuaries		Ponds and Lakes	Wetlands	Upland Areas
No		Yes	Υ	'es	No		Yes	No	No
	,			States Re					
IL		IN	N	11	M		OH	1	WI
X					X	(X
		Н	igh-Risk F	Response A	ctions an	d Activit	ties		
		May affect, not likel					r discountable	effects	
			All F	labitats of	Occurre	ence			
				Waste Ha	ndling				
	M	lay affect, not likely to	adversely a	affect due to	implemen	tation of	BMPs to minir	mize impact	
			Ports,	Canals, In	dustrial	Areas			
Sand Manu Detector Record Conta	ing n Cle blasti lal rer ction overy ainme	eaning ing moval /Cleaning of oil, of non-floating or subn of non-floating or subn ent of non-floating or se nt of buoys / Storage (on water)	nerged oil nerged oil		or vegeta	tion			
		May affect, likely to	adversely	affect – disc	uss possi	ble BMP	s to minimize i	mpact	
	R	Rivers and Stream	3				Ponds an	d Lakes	
Culve Skimi Vacui Sorbe Flood Flush Stear Sand Manu debris Detect Recoo Conta Use C Deple	or B	on barriers, dams, pits ocking g eaning ing moval /Cleaning of oil, vegetation of non-floating or subn ont of non-floating or subn ent of non-floating or sissels	oiled sedir nerged oil nerged oil	nent,		Culvert Skimmir Vacuum Sorbent Flooding Flushing Steam (Sandbla Manual Detectic Recover Contain Use of \ Use of \ Deploym	r Berms ction barriers, blocking ng ning s g Cleaning stremoval /Clear or vegetation on of non-floati ment of non-floati /essels	ning of oil, oi ng or subme ng or subme pating or sub	iled sediment, rged oil rged oil

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Longsolic	<u> </u>			Stat	Status Petitioned (2021)			21)	1) Unlisted		
Scientific Na	me	Fusconaia subrotuno	la		Critica	al Habita	t N/A				
Habitat ¹											
Shoreline (beach/land)	I Rivers		Rivers ar	nd Streams Bays a Estuar			Ponds and Lakes	Wetland	ds	Upland Areas	
No		Yes	Υ	'es	es No		Yes	No		No	
				States R	elevant						
IL		IN	N	11	M	N	Ol	+		WI	
X X								Х			
		Н	ligh-Risk F	Response A	ctions an	d Activit	ties				

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

Rivers and Streams	Ponds and Lakes
 Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water) 	 Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water)

BMPs

- A wildlife monitoring plan
- 2. 3. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Northern Riffleshell **Status Endangered (1993)** 58 FR 5638 Scientific Name Pleurobema clava **Critical Habitat** Habitat1 Shoreline Ports. Canals. Industrial Ponds and Bavs and Rivers and Streams Wetlands **Upland Areas** (beach/land) **Estuaries** Lakes Areas Yes No Yes Yes Yes No No States Relevant IL IN MI MN OH WI Χ Χ Χ Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, likely to adversely affect – discuss possible BMPs to minimize impact Ports, Canals, Ponds and Lakes Rivers and Streams Bays and Estuaries Industrial Areas Booming Booming Dikes or Berms

Construction barriers, dams, pits, and trenches Booming Culvert blocking Skimming Skimmina Vacuuming Vacuuming Sorbents Sorbents Flushing Flooding Steam Cleaning Flushing Sandblasting Steam Cleaning Manual removal /Cleaning Sandblasting of oil, oiled sediment, Manual removal /Cleaning debris, or vegetation of oil, oiled sediment, Detection of non-floating debris, or vegetation or submerged oil Detection of non-floating Recovery of non-floating or submerged oil or submerged oil Recovery of non-floating Containment of nonor submerged oil

- Booming
- Dikes or Berms Construction barriers,
- dams, pits, and trenches Skimming
- Vacuuming
- Sorbents
- Flooding
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of nonfloating or submerged oil
- Deployment of buoys

- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimmina
- Vacuuming
- Sorbents
- Flooding
- Flushina
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil Containment of non-
- floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

A wildlife monitoring plan

floating or submerged oil

Deployment of buoys

water)

Temporary Storage (on

- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. 3.

Containment of non-

Deployment of buoys

Temporary Storage (on

Use of Vessels

Use of Vehicles

floating or submerged oil

When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Orangefo</u>	ot F	<u>Pimpleback</u>		Stati	us	Enda	angered (1	976)	41 FR 2406		
Scientific Na	me	Plethobasus cooperid	anus		Critic	⊥ al Habita	at N/A				
				Habita	at ¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	nd Streams		and aries	Ponds and Lakes	Wetlands	ds Upland Are		
No		Yes	Yes No		Yes	No	No				
				States Relevant					WI		
IL X		IN	IV.	MI MN OH							
^			iah Diek I	Response Ac	etions a	ad Activi	tios				
		May affect, not likel						effects			
		May affect, flot like		labitats of			n discountable	ellecis			
			7 (11 1	Waste Ha		CITOC					
		May affect, likely to	adversely	affect – disc	uss pos	sible BMF	s to minimize	impact			
Ports, Cana	als, I	ndustrial Areas	Rivers and Streams			ı	onds an	d Lakes			
Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water)				or Berms cuction barriers ses blocking ing ming ts g Gleaning asting I removal /Cle int, debris, or on of non-floa rged oil ery of non-floa rged oil ment of non- rged oil Vessels Vehicles ment of buoy	eaning o vegetati ating or ating or floating	f oil, oilec on or	Construtrenches Culvert Skimmin Vacuum Sorbent Flooding Flushing Steam (Sandbla Manual Sedimer Detectic Submerg Recove Submerg Contain Submerg Use of \ Deployr Tempor	Vacuuming Sorbents			
		Spec		erations need			concern				
		Natural atten		labitats of w habitat to r			vhile monitorin	g .			
				d monitoring:	air, land		ncludes SCAT				
 Buffe Spill Wher collect 	r zon Respeninsta tion eduled	nonitoring plan es with the concurrence onse Plan that has pre alling or placing tempo equipment/material/stru /implemented in a way	-identified rary structu uctures), e	staging areas ures or mater nsure that co	s for persial (i.e., l	ooms, b n/decons	erms, dikes, cu struction/remov	ilvert blocks al plans are	s, or other oil e in place and are		

Pink Mucl	<u>cet</u>			State	us	Enda	ngered (1	976)	41 FR 24062
Scientific Na	me	Lampsilis abrupta			Critica	al Habitat	t N/A		
				Habit	at ¹				
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetlands	Upland Areas
No		Yes	Y	′es	No			No	No
			!	States Re		•			
IL		IN	N	11	M	N	OH	1	WI
X		X					X		
		н	ligh-Risk F	Response Ad	ctions an	d Activit	ies		
		May affect, not likel					discountable	effects	
			All F	labitats of		ence			
				Waste Ha	indling				
	N	lay affect, not likely to	adversely a	affect due to	implemen	itation of	BMPs to minir	mize impact	
Boom			Ports,	Canals, In	dustrial	Areas			
SandManuDetectRecotontaDeplo	n Cle blasti al rei ction very ainme byme	eaning ing moval /Cleaning of oil, of non-floating or subn of non-floating or subn ent of non-floating or si nt of buoys y Storage (on water)	nerged oil nerged oil		or vegeta	ition			
		May affect, likely to	adversely	affect – disc	uss possi	ible BMP	s to minimize i	mpact	
	R	Rivers and Streams	S				Ponds an	d Lakes	
Culve Skimi Vacui Sorbe Flood Flush Stear Sand Manui debris Detect Reco Conta	or B	on barriers, dams, pits ocking g eaning ing moval /Cleaning of oil, vegetation of non-floating or subn of non-floating or subn ent of non-floating or sissels	oiled sedir nerged oil nerged oil	nent,		Culvert by Skimmin Vacuum Sorbents Flooding Flushing Steam Conditions and I debris, containing Use of Vuse of Vacuum Skimmin Vacuum School Skimmin Vacuum Skimmin Vacuum Skimmin Vacuum Skimmin Vacuum	Berms ction barriers, clocking g ing s cleaning sting removal /Clean or vegetation n of non-floati ment of non-floati vessels	ning of oil, c ng or subme ng or subme	illed sediment, erged oil erged oil

BMPs

- A wildlife monitoring plan
- 2. 3. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Purple Ca	t's	Paw Pearlymu	ıssel	Stat	us	Enda	angered (1	990)	55	5 FR 28209
Scientific Na	me	Epioblasma obliquata	a obliquata		Critica	al Habita	at N/A	·		
				Habit	at¹					
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Estuaries		Ponds and Lakes	Wetlands		Upland Areas
No		No	Υ	′es	N	0	Yes	No		No
	<u> </u>		•		s Relevant					
IL		IN	N	11	M	N	OI			WI
							X			
				Response A						
		May affect, not likel	•	<u> </u>			or discountable	effects		
			All F	labitats of		ence				
				Waste Ha						
		May affect, likely to		affect – disc	cuss possi	ible BMF				
Boom		Rivers and Stream	S			Boomin	Ponds an	d Lakes		
 Culve Skimi Vacu Sorbe Flood Flush Stear Sand Manudebris Detect Reco Conta Use o Deple 	ert bloming uming ents ling ing cle blasti lal reis, or very eainment Vestor Ve	eaning ing moval /Cleaning of oil, vegetation of non-floating or subn of non-floating or subn ent of non-floating or su	nent,	•	Culvert Skimmi Vacuum Sorben Floodin Flushin Steam Manual debris, Detectio Recove Contair Use of Use of Deployi	ning ts g g Cleaning	ning of oil, ng or subm ng or subm pating or su	oile	d sediment, led oil led oil	
		Spec	cial conside	erations need	led, high l	evel of c	concern			
				labitats of						
							while monitoring noludes SCAT			
				ВМР	's					
2. Buffe 3. Spill I 4. Wher collect	r zon Responsinsta tion of duled	nonitoring plan es with the concurrence onse Plan that has pre alling or placing tempo equipment/material/str /implemented in a way	i-identified rary structu uctures), e	staging area ures or mater nsure that co	rial (i.e., b instructior	ooms, bandecons	erms, dikes, cu struction/remov	ilvert block al plans ar	s, o e in	r other oil place and are

Pyramid F	Pigt	oe		Statı	ile.	Unlis	ted		Hr	nlisted
Scientific Na	me	Pleurobema rubrum					1		01	III3tCu
				Habita			1, .			
Shoreline (beach/land)	Por	rts, Canals, Industrial Areas	Rivers ar			Bays and Po		Wetland	Is	Upland Areas
No		Yes	Yes No			0	Yes	No		No
			l	States Re	levant		_			
IL	IL IN				M	N	Ol			WI
							X			
		н	ligh-Risk F	Response Ad	ctions an	d Activiti	es			
		May affect, not likel	y to advers	sely affect due	e to insig	nificant or	discountable	effects		
			All F	labitats of	Occurre	ence				
				Waste Ha	ndling					
		May affect, likely to	o adversely	affect – disc	uss poss	ible BMPs	s to minimize i	impact		
Ports, Cana	ıls, I	ndustrial Areas	F	Rivers and	Stream	Ponds and Lakes				
 sediment, del Detection of r submerged oi Recovery of r submerged oi 	val /C oris, d non-fl il non-fl	oating or	 Construtrenche Culvert Skimmi Vacuur Sorben Floodin Flushin Steam Sandbl Manual sedime Detectisubmen 	or Berms Juction barriers Juction barriers Juction barriers Juction barriers Juction July Juction July Juction July July July July July July July July	eaning of vegetatio ating or	oil, oiled	trenches Culvert I Skimmir Vacuum Sorbents Flooding Flushing Steam C Sandbla Manual sedimer Detectio submerg	Berms ction barrie blocking ing ing cleaning sting removal /C it, debris, c in of non-fl	Clear or ve oatir	ng or

• Containment of non-floating or

submerged oil

Use of Vessels

Use of Vehicles

• Deployment of buoys

submerged oil

• Use of Vessels

• Use of Vehicles

 Deployment of buoys Temporary Storage (on water)

• Containment of non-floating or

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

submerged oil

Deployment of buoys

• Temporary Storage (on water)

Rabbitsfo	<u>ot</u>			Stat	us	Thre	atened (20	13)	78	3 FR 57076
Scientific Na	me	Quadrula cylindrica c	ylindrica		Critica	al Habita	t Designate	d		
				Habit	tat ¹					
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas
No		Yes	Y	'es	N	0	Yes	No		No
				States Re	elevant					
IL		IN	IV	11	M	N	Ol	1		WI
Х		X					Х			
		н	igh-Risk F	Response A	ctions an	d Activi	ties			
		May affect, not likel	y to advers	sely affect du	ie to insig	nificant o	r discountable	effects		

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys Temporary Storage (on water)

May affect, likely to adversely affect – di	May affect, likely to adversely affect – discuss possible BMPs to minimize impact									
Rivers and Streams	Ponds and Lakes									
Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water)	Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water)									
Special considerations ne	eded, high level of concern									

BMPs

- A wildlife monitoring plan
- 2. 3. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Scientific Name Villose fabalis Critical Habitat	Rayed Be	<u>an</u>			Stat	us	Enda	angered (2	2012)	7	7 FR 8632
Shoreline (beach/land)	Scientific Na	me	Villosa fabalis			Critica	l al Habita	at N/A			
Constinuent of non-floating or submerged oil Containment of non-					Habit	at ¹					
IL IN MI MN OH WI X X X High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Deployment of budys Temporary Storage (on water) Booming Sorbents Booming Flushing Sorbents Booming Vacuuming Sorbents Booming Flushing		Por		Rivers a	nd Streams				Wetland	s	Upland Areas
IL	No		Yes	١	⁄es	Υe	es	Yes	No		No
High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Sorbents Siteam Cleaning Sandblasting Manual removal / Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Construction barriers, dams, pits, and trenches Construction of non-floating or submerged oil Deployment of buoys Booming Booming Booming Booming Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Sorbents Booming Booming Booming Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal / Cleaning of oil, oiled sediment, debris, or vegetation Containment of non-floating or submerged oil Flushing Steam Cleaning Sandblasting Manual removal / Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of boor, floating or submerged oil Containment of boor, floatin					States Re	levant					
High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Vacuuming Vacuuming Sandbiasting Anual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Way affect, likely to adversely affect or discuss possible BMPs to minimize impact Ponds and Lakes Ponds and Lakes Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Vacuuming Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Vacuuming Steam Cleaning Steam Cleaning Sandblasting Manual removal /Cleaning or submerged oil Recovey of non-floating or submerged oil Steam Cleaning Steam Cleaning Steam Cleaning Sandblasting Manual removal /Cleaning or submerged oil Recovery of non-floating or submerged oil Steam Cleaning Sandblasting Manual removal /Cleaning or submerged oil Recovery of non-floating or submerged oil Steam Cleaning Sandblasting Manual removal /Cleaning or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged	IL					M	N				WI
May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Steam Cleaning or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Rivers and Streams Steam Cleaning Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Steam Cleaning St			X	>	<			X			
All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Storbents Schem Cleaning Steam Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Steam Cleaning Schemis Construction barriers, dams, pits, and trenches Culvert blocking Skimming Steam Cleaning of oil, oiled sediment, debris, or vegetation Steam Cleaning or submerged oil Steam Cleaning Steam			Н	igh-Risk F	Response A	ctions an	d Activi	ties			
May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Sorbents Flushing Sandblasting Sandblasting Sandblasting Secovery of non-floating or submerged oil Containment of non-floating or submerged oil Shooming Delection of non-floating or submerged oil Containment of non-floating or submerged oil Sorbents Flooding Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged o			May affect, not likel	y to advers	sely affect du	e to insig	nificant o	or discountable	effects		
Ports, Canals, Industrial Areas Booming Skimming Vacuuming Steam Cleaning Sandblasting Detection of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Sorbents Flushing Searous for Booming Wanual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection barriers, dams, pits, and trenches Construction barriers of non-floating or submerged oil Deployment of buoys Booming Vacuuming Sorbents Flooding Deployment of buoys Booming Construction barriers of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Vacuuming Vac				All F	labitats of	Occurre	ence				
Booming Skimming Vacuuming Sorbents Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Skimming Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Construction for non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating					Waste Ha	andling					
Booming Skimmling Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Recovery of non-floating or submerged oil Recovery of non-floating or submerged oil Peloployment of buoys Temporary Storage (on water) Booming Shimming Steam Cleaning Sorbents Flooding Recovery of non-floating or submerged oil Peloployment of buoys Temporary Storage (on water) Booming Sorbents Flooding Sorbents Booming Sorbents Flooding Sorbents Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Steam Cleaning of oil, oiled sediment, debris, or vegetation Booming Skimming Skimming Sorbents Flooding Flushing Steam Cleaning Steam C					affect due to	implemer	itation of				
Skimming Sorbents Sorbents Sorbents Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Olikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sandblasting Steam Cleaning or submerged oil Containment of non-floating or submerged oil Containment of		rts,	Canals, Industrial	Areas				Bays and	Estuaries	3	
Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vessels Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil	 Skimming Vacuuming Sorbents Flushing Steam Clear Sandblasting Manual removegetation Detection of Recovery of Containmen Deployment 	 Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Dikes or Berms Construction barriers, dams, pits, and trenches Skimming Vacuuming Sorbents Flooding Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Deployment of buoys 									
 Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Skimming Skiming Skim		R			uncot disc		IDIC DIVII				
	 Dikes or Ber Construction Culvert block Skimming Vacuuming Sorbents Flooding Flushing Steam Clear Sandblasting Manual removegetation Detection of Recovery of Containmen Use of Vess Use of Vehice Deployment 	nms n barring non-non-t of n els of bu	riers, dams, pits, and to /Cleaning of oil, oiled so- floating or submerged floating or submerged ion-floating or submerged	renches rediment, d oil oil	lebris, or	 Dikes Const Culve Skimn Vacut Sorbe Flood Flushi Stean Sandh Manut vegeta Detect Recov Conta Use o Deplo 	or Berm ruction b rt blockin ning uming ints ing in Cleanin blasting all removation of n very of n inment of f Vessel f Vehicle yment o	ng on-floating or son-floating ses f buoys	pits, and tr f oil, oiled s submerged submerged or submerg	edii oil	ment, debris, or
			Spec	cial conside	erations need	led, high l	evel of c	concern			

BMPs

- A wildlife monitoring plan
- 2. 3. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Rough Pig	nto	<u>e</u>		_						
Roughing	<u> </u>	<u> </u>		Stat	tus	Enda	ngered (1	976)	4	1 FR 24062
Scientific Na	me	Pleurobema plenum			Critic	al Habitat	: N/A			
				Habi	tat¹					
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estu		Ponds and Lakes Wetlan		ls Upland Area	
No		Yes	Υ	⁄es	N	0	Yes	No		No
		181		States R			01			VA (1
IL		IN	IV.	11	IV	IN	OF	1		WI
		X	ligh Dick D	Response A	ctions an	d Activiti	ios			
		May affect, not likel						offacts		
		iviay affect, flot likel	•	labitats of			discountable	CHECIS		
			7 1	Waste H		01100				
		May affect, likely to	o adversely			ible BMPs	s to minimize i	mpact		
Ports, Cana	als. I	ndustrial Areas		Rivers and				Ponds ar	nd I	_akes
Booming Skimming Vacuuming Vacuuming Sorbents Flushing Steam Cleani Sandblasting Manual remo sediment, del Detection of r submerged o Recovery of r submerged o Containment submerged o Deployment o Temporary St	val /0 oris, o non-fl il non-fl il of no il	loating or loating or on-floating or on-specific or one of the control of the con	trenche Culvert Skimm Vacuur Sorben Floodin Flushin Steam Sandbl Manual sedime Detecti submee Contair submee Use of Use of	or Berms Juction barrie Les Liblocking Ling Ling Lits Lig Lig Cleaning List Lig	leaning of or vegetation pating or pating or n-floating of	oil, oiled on	trenches Culvert I Skimmir Vacuum Sorbents Flooding Flushing Steam C Sandbla Manual Manual Sedimen Detectio submerg Recover Contains submerg Use of V	Berms ction barrie blocking g ing s cleaning sting removal /0 tt, debris, o n of non-fl ged oil ment of no ged oil fessels fehicles nent of bud	Clea or ve oati loati on-flo	ng or ng or pating or
		Spec	cial conside	erations nee	ded, high	level of co	· · · · · ·	,	,,,	ĺ
			All F	labitats of	Occurre	ence				
							hile monitoring			

BMPs

- A wildlife monitoring plan
 Buffer zones with the concurrence of USFWS.
- 3.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Scientific Name Obovaria subratunda Critical Habitat	Round Hid	<u>cko</u>	<u>orynut</u>		Stati	us	Petiti	ion	ed (2021)	U	nlisted
Shoreline (beach/land)	Scientific Na	me	Obovaria subrotunda	1		Critica	al Habita	at	N/A			
Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Construction barriers, dams, pits, and trenches Culvert blocking Steam Cleaning Steam (Sendissing Steam					Habita	at ¹						
IL IN MI MN OH WI X X X X X X High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Soming Vacuuming Vacuuming Vacuuming Sorbents Flushing Sandblasting Sandblasting Manual removal //Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Sikimming Vacuuming Sorbents Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Recovery of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Sikimming Vacuuming Sorbents Flooding Flushing Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Sandblasting Nanual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or subme	Shoreline (beach/land)	Por		Rivers ar	nd Streams	,		Р		Wetland	ls	Upland Areas
IL	No		Yes	Υ	'es	Ye	es		Yes	No		No
May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence												
High-Risk Response Actions and Activities May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Sorbents Sorbents Sandblasting Manual removal //Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Sorbents Construction barriers, dams, pits, and trenches Culvert blocking Skimming Sorbents Construction barriers, dams, pits, and trenches Culvert blocking Skimming Sorbents Construction barriers, dams, pits, and trenches Culvert blocking Skimming Sorbents Flooding Flushing Steam Cleaning Ste						M	N					WI
May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Skimming Skimming Sorbents Flushing Steam Cleaning Steam Cleaning Steam Cleaning of oil, oiled sediment, debris, or vegetation Containment of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Steam Cleaning Steam Cleaning Steam Cleaning Steam Cleaning Sandblasting Sandblasting Sandblasting Steam Cleaning St	X		l									
All Habitats of Occurrence Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Skimming Sorbents Flushing Steam Cleaning Sandblasting Bays and Estuaries Booming Construction barriers, dams, pits, and trenches Skimming Construction barriers, dams, pits, and trenches Skimming Containment of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Steam Cleaning Steam Cleaning Steam Cleaning Steam Cleaning Steam Cleaning Steam Cleaning Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Steam Cleaning Steam Cleaning Steam Cleaning Construction barriers, dams, pits, and trenches Coulvert blocking Skimming Steam Cleaning										-664-		
May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ports, Canals, Industrial Areas Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Sistem Cleaning Skimming Sistem Cleaning Skimming Sorbents Flooding Skimming Sandblasting Steam Cleaning Sandblasting Sandblasti			iviay affect, not likel					or als	scountable	епесіѕ		
Ports, Canals, Industrial Areas Booming Skimming Vacuuming Steam Cleaning May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Booming Skimming Vacuuming Steam Cleaning Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Rivers and Streams Booming Steam Cleaning Sorbents Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sandblasting Sorbents Flooding Flushing Steam Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Deployment of buoys Deployment of buoys Sorbents Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Recovery of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerge				All F			ence					
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Booming Skimming Skimming Skimming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Construction barriers, dams, pits, and trenches Culvert blocking Skimming Skimming Vacuuming Vacuuming Skimming Skimming Vacuuming Skimming Vacuuming Skimming Skimming Skimming Skimming Vacuuming Skimming S					affect due to i	mplemen	itation of					
 Skimming Vacuuming Sorbents Flushing Steam Cleaning Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Temporary Storage (on water) Booming Dikes or Berms Sorbents Flooding Deployment of buoys Deployment of buoys Deployment of buoys Temporary Storage (on water) Deployment of buoys Temporary Storage (on water) 		_	Canals, Industrial	Areas					ays and E	Estuaries	S	
Rivers and Streams Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Use of Vessels Use of Vessels Deployment of buoys Temporary Storage (on water) Booming Booming Booming Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Ski	 Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Booming Dikes or Berms Construction barriers, dams, pits, and trenches Skimming Vacuuming Sorbents Flooding Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Deployment of buoys Deployment of buoys 											
 Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vessels Use of Vehicles Deployment of buoys Temporary Storage (on water) Dikes or Berms Construction barriers, dams, pits, and trenches Culvert blocking Skimming Vacuuming Skimming Vacuuming Scorbents Flushing Steam Cleaning Sandblasting Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Use of Vessels Use of Vessels Use of Vessels Use of Vessels Temporary Storage (on water) Special considerations needed, high level of concern		R										
•	 Dikes Const Culve Skimr Vacut Sorbe Flood Flushi Stean Sandt Manudebris Detect Reconta Use o Deplo 	ing or B ruction to bloom the struction of the struction	erms on barriers, dams, pits ocking g eaning ing moval /Cleaning of oil, vegetation of non-floating or subm of non-floating or subm ent of non-floating or si essels hicles nt of buoys	oiled sedir	nent,	•	Dikes of Construction Dikes of Construction Culvert Skimmi Vacuum Sorben Floodin Flushin Steam Sandbla Manual debris, Detection Recover Contair Use of Use of Deployer	ng or Be cuction blood blood ing ming ts g G Clea astir I rem or v on o on o on o on v on o on v on o on o	erms on barriers, ocking aning ng noval /Clear regetation of non-floatin of non-floatin of non-floatin of non-floatin of non-floatin of of booys	ning of oil, ng or subn ng or subn pating or si	oile nerg nerg	ed sediment, ged oil ged oil
•			Sner	cial conside	erations need	ed high l	evel of c	conc	ern			
All Mobitoto of Accurrence			Spec					JUNIC	CIII			

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Salamande</u>	<u>r Mussel</u>		State	us	Unde	er Review		Unlisted
Scientific Name	e Simpsonaias ambigu	ıa		Critica	al Habita	at N/A	l	
			Habit	at¹				
Shoreline (beach/land)	Ports, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	s Upland Areas
No	Yes	Y	⁄es	Υe	es	Yes	No	No
			States Re	levant				
IL	IN	N	ΛI	M	N	OI	1	WI
X	X	>	Χ	>	<	X		Х
	ŀ	ligh-Risk F	Response Ad	ctions an	d Activ	ities		
	May affect, not like	ly to advers	sely affect du	e to insig	nificant o	or discountable	effects	
		All F	labitats of	Occurre	ence			
			Waste Ha	andling				
	May affect, not likely to	adversely a	affect due to	implemer	ntation o	f BMPs to minii	mize impac	:t
Ports	s, Canals, Industrial	Areas				Bays and	Estuaries	8
 Sandbla Manual debris, or Detection Recove Contain Deployr 	ng ning s g Cleaning	nerged oil nerged oil ubmerged (•	Constru Skimmi Vacuur Sorben Floodin Manual debris, Detecti Recove Contair Deploy	or Berms Juction barriers, Juction barriers, Juction barriers, Juction July Juction July Juction July July July July July July July July	ning of oil, ng or subm ng or subm pating or su	oiled sediment, nerged oil nerged oil	
	Rivers and Stream		/ allect – uisc	uss poss	IDIE DIVII	Ponds an		
 Culvert Skimmin Vacuum Sorbent Flooding Flushing Steam 0 Sandbla Manual debris, o Detectio Recove Contain Use of N Deployr 	g r Berms ction barriers, dams, pits blocking ng ning s G Cleaning asting removal /Cleaning of oil, or vegetation on of non-floating or subr ment of non-floating or s /essels	oiled sedir	ment,		Construction Coulvert Skimmi Vacuur Sorben Floodin Flushin Steam Sandbl Manual debris, Detecti Recover Contair Use of Use of Deploy	ng or Berms uction barriers, blocking ing ning ts g G Cleaning asting	ning of oil, ng or subm ng or subm pating or su	oiled sediment, nerged oil nerged oil
· i citipoi				-	•			
	Spe	cial conside	erations need	led, high I	evel of o	concern		
		All F	labitats of	Occurre	ence			

BMPs

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Scaleshel	<u> </u>			Stat	us	Enda	angered (2	2001)	66	6 FR 51322
Scientific Na	me	Leptodea leptodon			Critica	al Habita	at N/A			
				Habit	at¹					
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ls	Upland Areas
No		Yes	١	'es	N	0	Yes	No		No
				States Re	levant					
IL		IN	N	11	M	N	0	Н		WI
X										
		н	ligh-Risk F	Response A	ctions an	d Activi	ities			
		May affect, not likel	y to advers	sely affect du	e to insigi	nificant o	or discountable	effects		
			All F	labitats of	Occurre	ence				
				Waste Ha	ndling					
		May affect, likely to	o adversely	affect – disc	cuss possi	ible BMF	s to minimize	impact		
Ports, Cana	als, I	ndustrial Areas	F	Rivers and	Stream	S		Ponds ar	nd L	₋akes
Booming Skimming Vacuuming Vacuuming Sorbents Flushing Steam Clean Sandblasting Manual remo sediment, de Detection of submerged of submerged of containment submerged of Deployment of Temporary S	val /(bris, on non-fl il non-fl il of no il	loating or loating or on-floating or on-greating or	trenche Culvert Skimm Vacuur Sorben Floodin Flushin Steam Sandbl Manual sedime Detecti submee Contair submee Use of Use of	or Berms Juction barrier Les Jobocking Ling Ling Ling Ling Ling Ling Ling L	eaning of vegetation ating or ating or -floating o	oil, oilec	trenche Culvert Skimmi Vacuum Sorbent Flooding Flushing Steam 0 Sandbla Manual sedimen Detectic submer Recove submer Contain submer Use of V Deployr	r Berms ction barries s blocking ng ning s g g Cleaning asting removal /C nt, debris, c on of non-fl ged oil ment of no ged oil /essels /ehicles	Clear or ve oatir oatir n-flc	ng or ng or pating or
		Spec		erations need			concern			
		Natural atten		labitats of			nitoring naturall	V		
				d monitoring:	air, land,		ncludes SCAT			
A wildlife n	nonit	oring plan		ВМР	'S					
		th the concurrence of l	JSFWS.							

- Buffer zones with the concurrence of USFWS.
 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
 When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Sheepnos	<u>se</u>			State	us	Enda	ngered (2	012)	77 FR 14914
Scientific Na	me Pleth	obasus cyphyus	3		Critica	ıl Habitat	t N/A		
	'			Habit	at ¹		_		
Shoreline (beach/land)		nals, Industrial areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetlands	Upland Areas
No	,	Yes	Υ	'es	No	0	Yes	No	No
				States Re		•	_		•
IL		IN	N.	11	M		Ol		WI
Х		Χ			<u> </u>	(X		X
		Н	igh-Risk F	Response Ad	ctions an	d Activit	ies		
	May	affect, not likel	y to advers	ely affect du	e to insigr	nificant or	r discountable	effects	
			All F	labitats of	Occurre	ence			
				Waste Ha	ındling				
	May affe	ect, not likely to	adversely a	affect due to	implemen	tation of	BMPs to minir	mize impact	
			Ports,	Canals, In	dustrial	Areas			
SandManuDetectRecoContaDeplo	n Cleaning blasting al removal / ction of non- very of non- ainment of n byment of bu	Cleaning of oil, floating or subn floating or subn on-floating or su loys ge (on water)	nerged oil nerged oil		or vegeta	tion			
		y affect, likely to	adversely	affect – disc	uss possi	ble BMP	s to minimize i	mpact	
	Rivers	and Streams	S				Ponds an	d Lakes	
Cons Culve Skim Vacu Sorbe Flood Flush Stear Sand Manu debris Detect Reco Conta	or Berms truction barr ert blocking ming uming ents ing ing n Cleaning blasting al removal / s, or vegetat etion of non- very of non-	floating or subn floating or subn on-floating or si	oiled sedir nerged oil nerged oil	nent,		Culvert I Skimmir Vacuum Sorbents Flooding Flushing Steam C Sandbla Manual, d debus, c Detectio Recover Contains Use of V Use of V	Berms ction barriers, blocking ng ing s cleaning sting removal /Clea or vegetation n of non-floati ment of non-floati	ning of oil, o ng or subme ng or subme	illed sediment, erged oil erged oil

BMPs

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Shoreline (beach/land) No Yes IL X May affect, Ports, Canals, May affect, Ports, Canals, Skimming Skimming Vacuuming Sorbents Flushing Steam Cleaning Steam Cleaning Manual removal /Cleaderis, or vegetation Detection of non-floader Recovery of non-floader Containment of non- Deployment of buoys Temporary Storage	High-Rect, not likely to adver	Yes States F MI X Lisk Response All Habitats C Waste F	Bays Estua Ye Relevant M Actions an due to insign of Occurred Handling	N d Activiti	Ponds and Lakes Yes OH X		Upland Areas No WI X
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Standblasting Manual removal /Cle debris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	High-Rect, not likely to adver	Yes States F MI X Lisk Response All Habitats C Waste F	Bays Estua Ye Relevant M Actions an due to insign of Occurre Handling	N d Activiti	Yes OH X	No No	No
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Standblasting Manual removal /Cle debris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	High-Rect, not likely to adver	Yes States F MI X Lisk Response Adversely affect of Waste F Sely affect due to	Relevant M Actions and due to insign of Occurre	N d Activiti	Yes OH X	No No	No
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cle debris, or vegetation Detection of non-floa Recovery of non-floa Containment of non- Deployment of buoys Temporary Storage	High-Refect, not likely to a	States F MI X Lisk Response a dversely affect of All Habitats of Waste F sely affect due to	Actions and due to insign of Occurred Handling	N ad Activition	OH X	1	WI
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Manual removal /Cle debris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	High-R fect, not likely to a	MI X Lisk Response adversely affect of All Habitats of Waste F	Actions and due to insign of Occurred Handling	d Activition	X es		
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Manual removal /Cle debris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	High-R fect, not likely to a	X Lisk Response Adversely affect of All Habitats C Waste Habitats C	Actions and due to insign of Occurred Handling	d Activition	X es		
May affect, Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Manual removal /Cledebris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	High-R fect, not likely to a	dversely affect of All Habitats of Waste H	due to insign of Occurre Handling	nificant or	es		Х
May affect, Ports, Canals, Booming Skimming Vacuuming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-floateRecovery of non-floateContainment of non-Deployment of buoys Temporary Storage	rect, not likely to a	dversely affect of All Habitats of Waste Habitats due to the selly affect due	due to insign of Occurre Handling	nificant or			
May affect, Ports, Canals, Booming Skimming Vacuuming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-floateRecovery of non-floateContainment of non-Deployment of buoys Temporary Storage	not likely to adver	All Habitats o Waste H sely affect due t	of Occurre		discountable		
Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage	not likely to adver	Waste I sely affect due t	Handling	ence		effects	
Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage		sely affect due t					
Ports, Canals, Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-float Recovery of non-float Containment of non- Deployment of buoys Temporary Storage			o implemen				
Booming Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-floated Recovery of non-floated Containment of non-	Industrial Area	IS		ntation of E	BMPs to minin	mize impact	
 Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal /Cledebris, or vegetation Detection of non-floating Recovery of non-floating Containment of non-peployment of buoys Temporary Storage May at					Bays and E	Estuaries	
	ating or submerged ating or submerged floating or submer s	d oil d oil ged oil	• • • • • • • • • • • • • • • • • • •	Skimming Vacuuming Sorbents Flooding Manual redebris, of Detection Recovery Container Deploym	Berms tion barriers, of g ng emoval /Clear r vegetation n of non-floatir rent of non-flo ent of buoys	ning of oil, oi ng or submei ng or submei pating or sub	led sediment, rged oil rged oil
	d Streams				Ponds an		
Booming Dikes or Berms Construction barriers Culvert blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Manual removal /Cle debris, or vegetation Detection of non-floated containment of non-loated containment of non-loa	eaning of oil, oiled ating or submerged ating or submer floating or submer	sediment, d oil d oil		Culvert b Skimming Vacuuming Sorbents Flooding Flushing Steam Ci Sandblas Manual ru debris, on Detection Recovery Containm Use of Vo Use of Vo Deploym	Berms tion barriers, of locking g ng leaning eting emoval /Clear r vegetation n of non-floatin y of non-floatin nent of non-floatin essels	ning of oil, oi ng or subme ng or subme pating or sub	led sediment, rged oil rged oil
. spordry otorugo	, ,						
	Special co	nsiderations nee			ncern		

BMPs

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Spectacle	cas	<u>se</u>		Stat	us	Enda	ngered (2	012)	77 FR 14914
Scientific Na	me	Cumberlandia mono	donta		Critica	ıl Habita	t N/A	L	
				Habit	at ¹				
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetlands	Upland Areas
No		Yes	Υ	′es	No	0	Yes	No	No
			L	States Re	levant			l	
IL		IN	N	11	М	N	OH	1	WI
Х					>	(Χ
		н	ligh-Risk F	Response A	ctions an	d Activit	ies		
		May affect, not likel					r discountable	effects	
			All F	labitats of		ence			
				Waste Ha	ndling				
	M	lay affect, not likely to	adversely a	affect due to	implemen	tation of	BMPs to minir	mize impact	
Boom			Ports,	Canals, In	dustrial	Areas			
DetectRecoContaDeplo	n Cle blasti al rer ction o very o ainme oymer		nerged oil nerged oil		or vegeta	tion			
		May affect, likely to	adversely	affect – disc	uss possi	ble BMP	s to minimize i	impact	
	R	livers and Streams	S				Ponds an	d Lakes	
 Culve Skimi Vacui Sorbe Flood Flush Stear Sandi Manu debris Detect Reco Conta Use o Use o 	or B for the control of the control	on barriers, dams, pits ocking g aning moval /Cleaning of oil, vegetation of non-floating or submont of non-floating or subment of non-floating or sissels	oiled sedir nerged oil nerged oil	nent,		Culvert I Skimmir Vacuum Sorbent: Flooding Flushing Steam C Sandbla Manual debris, c Detectio Recover Contains Use of V Use of V	EBerms ction barriers, blocking ng ing s g Cleaning sting removal /Clean or vegetation or of non-floati ment of non-floati /essels	ning of oil, c ng or subme ng or subme	illed sediment, erged oil erged oil

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White Cat	spa	aw Pearlymus	<u>sel</u>	Stat	us	Enda	angered (1	976)	41	FR 24062
Scientific Na	me	Epioblasma obliquata	a perobliqu	ıa	Critica	al Habita	at N/A	l		
				Habit	at¹					
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	s	Upland Areas
No		No	Υ	res No Yes No N						
				States Re	levant		· 			
IL		IN	IV	11	M	N	OI			WI
		Х					X			
				Response A						
		May affect, not likel	•				or discountable	effects		
			All F	labitats of Waste Ha		ence				
		May affect, likely to	adverselv			ible RMF	Ps to minimize	imnact		
	P	Rivers and Stream		ancot – disc	,u33 p033	IDIC DIVII	Ponds an			
 Culve Skim Vacu Sorbe Flood Flush Stear Sand Manudebris Detect Reco Conta Use o Deple 	truction tru	on barriers, dams, pits ocking g aning moval /Cleaning of oil, vegetation of non-floating or subn of non-floating or subn ent of non-floating or si ssels nicles nt of buoys y Storage (on water)	oiled sedir nerged oil nerged oil ubmerged (ment,		Construction Construction Construction Construction Contain Construction Contain Construction Contain	ning ts g g Cleaning asting removal /Clea or vegetation on of non-floati ment of non-flo Vessels Vehicles ment of buoys rary Storage (o	ning of oil, ng or subm ng or subm pating or su	oiled nerge	l sediment, ed oil ed oil
		Spec	cial conside	erations need	led, high I	evel of c	concern			
		Natural attan		labitats of			nitoring naturall			
							ncludes SCAT			
				ВМР	s					
 Buffe Spill Wher collect 	r zon Respo insta tion e	nonitoring plan es with the concurrence onse Plan that has pre alling or placing tempo equipment/material/str /implemented in a way	-identified rary structu uctures), e	staging area ures or mater nsure that co	ial (i.e., b nstructior	ooms, b n/decons	erms, dikes, cu struction/remov	ilvert block al plans ar	s, or e in p	other oil place and are

Winged M	api	<u>eleaf</u>		State	JS	Enda	angered (2	2001)	56 FR 2834
Scientific Na	me	Quadrula fragosa			Critic	al Habita	at N/A	L	
				Habit	at¹				
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	nd Streams		s and aries	Ponds and Lakes	Wetlands	Upland Area
No		Yes	١	⁄es	N	lo	Yes	No	No
	1	INI I		States Re		451			\A/I
IL		IN	N	/11		MN X	Ol	H	X
		H	igh-Risk F	Response A			ities		
		May affect, not likel	y to advers	sely affect du	e to insiç	gnificant o	or discountable	effects	
			All F	labitats of	Occurr	ence			
				Waste Ha	ndling				
		May affect, likely to	adversely	affect – disc	uss pos	sible BMF	Ps to minimize	impact	
Ports, Cana	als, I	ndustrial Areas	F	Rivers and	Strean	าร	Boomin	Ponds and	d Lakes
Booming Skimming Vacuuming Sorbents Flushing Steam Cleani Sandblasting Manual remore sediment, del Detection of resubmerged of Recovery of resubmerged of Containment submerged of Deployment of Temporary St	val /C oris, c non-fl il non-fl il of no il	oating or oating or n-floating or oys e (on water)	Construction trenche Culvert Skimm Vacuur Sorben Floodir Flushin Steam Sandbl Manua sedime Detecti submee Recove Contain submee Use of Use of Deploy	blocking ing ming tts ing Cleaning asting I removal /Cle int, debris, or on of non-floa rged oil ery of non-floa rged oil Vessels Vehicles ment of buoy	eaning o vegetati ating or ating or floating	f oil, oiled on or	trenche Culvert Skimmi Vacuum Sorbent Floodin Flushin Steam Sandbla Manual Manual Sedimee Detectic submer Recove submer Contain submer Use of V Deployr Tempor	s blocking ang aning s g g g Cleaning asting removal /Cleating and and and anion of non-floating ged oil ment of nonged oil /essels	ating or ating or -floating or
		Spec		erations need			concern		
			uation: allo		ecover r	naturally	while monitorin		
	u.c		-	ВМР		· ·			
 Buffer Spill F When collect 	r zone Respo i insta tion e duled	nonitoring plan es with the concurrence onse Plan that has pre alling or placing tempo equipment/material/stru/ /implemented in a way	-identified rary structu uctures), e	staging areas ures or mater nsure that co	ial (i.e., l nstructio	oooms, b n/decons	erms, dikes, cu struction/remov	ulvert blocks, al plans are	, or other oil in place and are

Illinois Ca	Illinois Cave Amphipod			Stat	Endangered (1998			998)	98) 63 FR 46900	
Scientific Name Gammarus acherondytes					Critical Habitat N/A					
	Habitat ¹									
Shoreline (beach/land)	Poi	Ports, Canals, Industrial Areas		nd Streams	Bays and Estuaries		Ponds and Lakes	Wetland	ds	Upland Areas
No		No	Υ	res No		No	No		Yes	
				States R	elevant					
IL	IL IN			11	M	N	Ol	1		WI
X										
			iah Diek E	Pasnansa A	ctions an	d Activi	tion	•		

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMP's to minimize impact

Upland Areas

- Flooding
- Flushing

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- · Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

American	Bu	rying Beetle		Sta	tus	Thre	atened (19	989)	9) 54 FR 29652	
Scientific Na	me	Nicrophorus america	nus		Critic	al Habita	at N/A	'		
				Hab	itat¹		<u> </u>			
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers a	nd Streams	Bays and Estuaries		Ponds and Lakes	Wetland	ls	Upland Areas
No		No		No	N	0	No	Yes		Yes
				States R	Relevant					
IL		IN	N	ΛI	IV	IN	Oł	1		WI
)	X			X			
	High-Risk Response Actions and Activities									
		May affect, not like	y to advers	sely affect d	ue to insig	nificant o	or discountable	effects		
			All F	labitats o	f Occurr	ence				
				Waste F	landling					
	N	lay affect, not likely to	adversely	affect due to	implemer	ntation of	BMPs to minir	mize impad	ct	
		Wetlands					Upland	Areas		
vege Crea Acce	ial reitation tion/L ss of	moval / Cleaning of oil Jse of New Access Poi personnel by foot traff ination	nts	debris, or	•	Manual vegetat Creation Creation Access Tempon	r Berms removal / Clea	Access Poing Area (on y foot traff	ints n lar	iment, debris, or
		Spec	cial conside	erations nee	eded, high	level of c	concern			
			All F	labitats o	f Occurr	ence				
							while monitoring ncludes SCAT)			
				ВМ	Ps					
 Buffe Spill 	r zon Resp	nonitoring plan. es with the concurrenc onse Plan that has pre alling or placing tempo	-identified	staging are	as for pers	onnel an	id equipment the	nat minimiz	ze di	sturbance. r other oil

4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Bog Buckmoth		Sta	Status Under Rev		r Review		Not Listed			
Scientific Name Hemileuca sp.				Critical Habitat N/A						
	Habitat ¹									
Shoreline (beach/land)	Por	Ports, Canals, Industrial Areas River		nd Streams	Bays and Estuaries		Ponds and Lakes	Wetland	ds Upland Areas	
No		No	1	No	No		No	Yes	No	
				States R	Relevant					
IL	IL IN		N	11	M	MN		1	WI	
									Х	

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- · Access of personnel by foot traffic
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Dakota SI	<u>Dakota Skipper</u>			Status Threate		atened (20	tened (2014)		FR 63671	
Scientific Na	me	Hesperia dacotae			Critical Habitat Designate			d		
	Habitat ¹									
Shoreline (beach/land)	Poi	Ports, Canals, Industrial Areas		nd Streams	Bays and Estuaries		Ponds and Lakes	- I Wetlands		Upland Areas
No		No	1	No	No		No	No		Yes
				States R	elevant					
IL	IL IN		IV	II	M	MN		1		WI
)	<				

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Frosted Elfin Butterfly		Sta	atus Under		r Review		Unlisted			
Scientific Name Callophrys irus					Critical Habitat N/A					
	Habitat ¹									
Shoreline (beach/land)	Por	Ports, Canals, Industrial Areas		nd Streams	Bays and Estuaries		Ponds and Lakes	Wetland	ds Upland Area	
No		No	1	No	No		No	No	Yes	
				States F	Relevant					
IL	IL IN		N	11	M	N	OH	1	WI	
Х	X X		(Х		X		

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Hine's Emerald Dragonfly Endangered (1995) Status 60 FR 5267 Scientific Name Somatochlora hineana **Critical Habitat** Designated Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Estuaries Areas Lakes No No No Yes No No Yes States Relevant IN ОН WI IL MI MN Χ Χ Χ

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- · Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- · Access of personnel by foot traffic
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Hungerford's Crawling Water Status Endangered (1994) 59 FR 10580 **Beetle Scientific Name** Brychius hungerfordi **Critical Habitat** N/A Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Areas Estuaries Lakes No No Yes No No No No States Relevant OH WI IL IN MI MN Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects All Habitats of Occurrence Waste Handling Temporary Storage (on water) May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

Booming

- BoomingDikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vehicles
- Use of machinery/supporting equipment
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Karner Blue Butterfly **Endangered (1992) Status** 57 FR 59236 Scientific Name Lvcaeides melissa samuelis **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Estuaries Areas Lakes No No Yes No No No No States Relevant IN ОН WI IL MI MN Χ Χ Χ Χ Χ Χ

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- · Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Lindo's Da	200	laida Ekinnar									
Liliua S Ro	Jac	lside Skipper		Stat	us	Unde	r Review		Unlisted		
Scientific Na	me	Amblyscirtes linda			Critica	al Habitat	N/A				
				Habit	at ¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetlands	Upland Areas		
No		No	Y	'es	N	0	No	Yes	Yes		
				States Re							
IL		IN	N	11	M	N	OH	1	WI		
X		Χ	>	(>	<	X		X		
		Н	igh-Risk F	Response A	ctions an	d Activiti	ies				
		May affect, not likel	y to advers	ely affect du	e to insigi	nificant or	discountable	effects			
Rivers	and	d Streams		Wetla	nds			Upland A	Areas		
Booming Culver Blockir Manual removes sediment, deb Waste Handlir	val / o oris, d ng	or vegetation	Waste Handling				Capture species carcasseWaste H	or recovery es landling	f contaminated of contaminated		
	N	lay affect, not likely to	adversely a	affect due to	implemen	itation of I	BMPs to minir	nize impact			
Rivers	and	d Streams		Wetla	nds			Upland Areas			
Construction betrenches Flooding Flushing Steam Cleanin Sandblasting Mechanical (necleaning (surferment) Mechanical (necleaning and of the construction) Use of Vehicle Use of machine equipment Creation/Use Land)	trenches Flooding Flushing Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on				leaning of vegetations of contamir of contaminupporting	oil on nated ninated Points raffic	trenches Mechanic cleaning Mechanic cleaning Manual is sediment Use of V Use of nequipmet Creation Creation Land) Access of Tempora	Berms ction barrier cal (non-ch (surface, < cal (non-ch and excava removal / C t, debris, or 'ehicles nachinery/si ent //Use of Nev //Use of Sta of personne ary Storage mination	emical) sand (1 inch) (2 inch) (3 inch) (4 inch) (5 inch) (6 inch) (6 inch) (7 inch) (7 inch) (8 inch) (8 inch) (9 inch) (1 inch) (9 inch) (9 inch) (9 inch) (9 inch) (9 inch) (9 inch) (1 inch) (9 inch)		
	N	lay affect, not likely to	adversely a	affect due to	implemen	itation of I	BMPs to minir	nize impact			
				Wetla	nds						
,		hemical) sand cleanin hemical) sand cleanin	•	,	ch)						
		Spec	cial conside	erations need	led, high I	evel of co	oncern				
				labitats of							
							hile monitoring cludes SCAT)	9			
		Looding, sai	p.iiig, aiit	BMP		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.4455 50AT)				
Spill Respons When installin equipment/ma	with to the plant of the plant	ng plan the concurrence of US an that has pre-identific placing temporary stru il/structures), ensure the ented in a way to elimi	ed staging actures or nat constru	naterial (i.e., ction/decons	booms, b truction/re	erms, dik emoval pla	es, culvert blo ans are in plac	cks, or othe ce and are	er oil collection		

Mitchell's Satyr Butterfly **Endangered (1992) Status** 57 FR 21564 Scientific Name Neonympha mitchellii metchellii **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** Estuaries (beach/land) Areas Lakes No No No No No No Yes States Relevant IN ОН WI IL MI MN Χ Χ

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- · Access of personnel by foot traffic
- Decanting

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Monarch E	3ut	terfly		State	116	Cano	didate (2	120)		Inlisted	
				Otati			· ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- Iniotou	
Scientific Na	me	Danaus plexippus ple	exippus		Critic	cal Habita	it N/A		Vetlands Vetlands Ves Yes WI X Sects Jpland Areas or Hazing d care of contaminated decovery of contaminated decov		
				Habit	tat ¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	nd Streams		s and uaries	Ponds and Lakes	Wetlan	ds	Upland Areas	
No		No	١	⁄es	١	No	No	Yes		Yes	
				States Ro	elevant						
IL		IN	l	MI	N	MN	(DH		WI	
X		X		X		X		X		X	
		۲	ligh-Risk	Response A	ctions a	and Activ	ities				
		May affect, not like	ly to adver	sely affect du	ue to insi	ignificant	or discounta	ole effects			
Rivers	s an	d Streams		Wetla	ands			Uplar	id A	reas	
 Booming Culver Blockir Manual removes sediment, debte Waste Handling 	/al / (oris, c		• Wast	e Handling			Captu specie carcas	es or recove	of c	ontaminated	
		May affect, not likely to	adversely	affect due to	implem	entation o	f BMPs to m	inimize imp	act		
Rivers			T	Wetla						reas	
Construction to Flooding Flooding Flushing Steam Cleaning Sandblasting Mechanical (nocleaning (surfate) Mechanical (nocleaning and to the cleaning and the cleaning a	 Flushing Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) 				supporti ew Acce nel by foo	g of oil ation minated taminated ng equip. ess Points ot traffic	Const Mechanicleani Mechanicleani Manusedim Use o Creati Creati Acces Temp Decor	or Berms ruction barr anical (non- ng (surface anical (non- ng and exc: al removal / ent, debris, f Vehicles f machinery on/Use of N on/Use of S s of person orary Storae atamination	cher , <1 cher avati Clea or v /sup lew / Stagi nel t	mical) sand inch) mical) sand ion (>1 inch) aning of oil egetation oporting equipment Access Points ng Area (on land) by foot traffic	
	N	May affect, not likely to	adversely			entation o	f BMPs to m	inimize imp	act		
		Mechanical	(non-cher	Wetla chemical) san mical) sand c	nd cleani leaning a	and excav	ation (>1 inc	h)			
		Spec	cial consid	lerations need	ded, high	n level of	concern				
				Habitats of							
		Natural atten Locating, sa		ow habitat to nd monitoring							
				ВМЕ	Ps						
 Spill Respons When installing equipment/ma 	with t e Pla ig or ateria	ng plan the concurrence of USF an that has pre-identified placing temporary struel/structures), ensure the ented in a way to elimin	ed staging ctures or r at constru	material (i.e., oction/decons	booms, truction/	berms, di removal p	kes, culvert l lans are in p	locks, or of lace and ar	ther e	oil collection	

Poweshie	k S	<u>kipperling</u>		State	us	Enda	angered (2014)	79	9 FR 63671	
Scientific Na	me	Oarisma poweshiek			Critica	al Habita					
				Habita	at ¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	and Streams Bays and Estuaries			Ponds and Lakes	Vvetlands		Upland Areas	
No		No		No	N	0	No	Yes		Yes	
110		110		States Re			110	1 . 00			
IL		IN	N	/II	М	N	0	Н		WI	
			>	<	>	<				Х	
		Н	igh-Risk F	Response Ad	tions an	d Activi	ities				
		May affect, not likel	y to advers	sely affect du	e to insig	nificant o	or discountable	e effects			
			Upla	nd Areas (Unocci	ıpied	Upla	ind Areas	s (A	djacent to	
V	vetla	ands		Critical H				occupied	•	•	
Wa	ste F	landling		Waste Ha	ndling			Waste I	Hand	dling	
	N	lay affect, not likely to	adversely	affect due to	implemer	ntation of	f BMPs to min	imize impa	ct		
V	Vetl	ands		Wetla	nds			Upland	d Ar	eas	
 Construction barriers, pits, and trenches Culvert Blocking Flooding Flushing Manual removal / Cleaning of oil sediment, debris, or vegetation Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Access of personnel by foot traffic Decanting 			 Booming Manual removal / Cleaning of oil sediment, debris, or vegetation Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination 				Dikes of Construction of the Construction of	trenches Flooding Flushing Manual removal / Cleaning of oil sediment, debris, or vegetation Creation/Use of New Access Points Access of personnel by foot traffic			
	N	lay affect, not likely to	adversely a			itation of	f BMPs to min	imize impa	ct		
		Machan	ical (non a	Wetlar hemical) san		a (ourfo-	o <1 inch\				
							e, <1 incn) ation (>1 inch)			
				erations need							
			All F	labitats of	Occurre	ence			_		
		Natural attended Locating, sai					while monitorion				
				ВМР							
 Spill Respons When installin equipment/ma 	with the Plant of Pla	ng plan. The concurrence of US an that has pre-identific placing temporary strutores), ensure the ented in a way to elimit	ed staging actures or r nat constru	naterial (i.e., ction/decons	booms, b truction/re	erms, di emoval p	kes, culvert bl plans are in pla	ocks, or otl ace and are	ner o	oil collection	
USFWS Lead O	ffice	Contact:									

Rattlesnake-master Borer Moth		<u>Moth</u>	Sta	tus	us Under Review		Unlisted				
Scientific Na	Scientific Name Papaipema eryngii Critica					al Habitat	N/A	N/A			
	Habitat ¹										
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	I Rivers and Stream		Bays and Estuaries		Ponds and Lakes	Wetland	ds Upland A	reas	
No		No	1	No	No		No	No	Yes		
				States F	Relevant				·		
IL	IL IN		N	11	M	N	OH		WI		
Х											

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Regal Friti	lla	<u>ry</u>		Stat	us	Unde	er R	eview		U	nlisted
Scientific Nam	ne	Speyaria idalia			Critica	I Habita	t N	N/A			
				Habit	at¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua			nds and _akes	Wetland	ds	Upland Areas
No		No	Y	'es	No)		No	Yes		Yes
				States Re							
IL		IN	N		M			OF	1		WI
X		Χ	>	(X	(X			X
		Н	ligh Risk F	Response Ad	ctions an	d Activit	ies				
		May affect, not likel	y to advers	ely affect du	e to insigr	nificant o	r disc	countable	effects		
Rivers	and	Streams		Wetla	nds				Upland	l Ar	eas
BoomingCulver BlockingManual remova sediment, debrWaste Handling	al / (ris, c		• Waste	Handling			•		and care or recover es	of co	ontaminated contaminated
	M	ay affect, not likely to	adversely a	affect due to	implemen	tation of	ВМР	s to minin	nize impa	ct	
Rivers	and	d Streams		Wetla	nds				Upland	l Ar	eas
trenches Flooding Flushing Steam Cleaning Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Culve Flushing Manua sedim Determ Captu specie carcas carcas Use o equipment Creation/Use of Staging Area (on land)			 Dikes of Constructrenche Culvert Floodin Flushin Manual sedime Deterre Capture species carcass Use of Use of equipm Creatio Access Decant 	or Berms Juction barrier Jucti	leaning of vegetation go contamination of contamination with the contamination of the contami	oil in nated ninated Points raffic		 Booming Dikes or Berms Construction barriers, pits, and trenches Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Point Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination 			
	IVI	ay affect, not likely to	adversely a			tation of	BMP	's to minin	nize impa	ct	
Wetlands Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) BMPs 1. A wildlife monitoring plan 2. Buffer zones with the concurrence of USFWS. 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.											
When installing equipment/mat	g or teria lem	placing temporary strul/structures), ensure the ented in a way to elimi	ictures or nat constru	naterial (i.e., ction/decons	booms, be truction/re	erms, dik emoval pl	kes, d lans a	culvert blo are in plac	cks, or oth ce and are	ner d	oil collection

Rusty Patched Bumble Bee Status Endangered (2017) 82 FR 3186 Scientific Name Bombus affinis **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Estuaries Areas Lakes No No Yes No No Yes Yes States Relevant IN MI OH WI IL MN Χ Χ Χ Χ Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects Rivers and Streams Wetlands **Upland Areas** Booming · Deterrence or Hazing Culver Blocking Capture and care of contaminated Manual removal / Cleaning of oil Waste Handling species or recovery of contaminated sediment, debris, or vegetation carcasses Waste Handling Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Rivers and Streams Wetlands **Upland Areas** · Dikes or Berms Booming Booming · Construction barriers, pits, and · Dikes or Berms Dikes or Berms trenches Construction barriers, pits, and Construction barriers, pits, and Flooding trenches trenches Mechanical (non-chemical) sand Flushing Culvert Blocking Steam Cleaning Flooding cleaning (surface, <1 inch) Mechanical (non-chemical) sand Sandblasting Flushing Mechanical (non-chemical) sand Manual removal / Cleaning of oil cleaning and excavation (>1 inch) cleaning (surface, <1 inch) sediment, debris, or vegetation Manual removal / Cleaning of oil sediment, debris, or vegetation Mechanical (non-chemical) sand Deterrence or Hazing cleaning and excavation (>1 inch) Use of Vehicles Capture and care of contaminated Use of Vehicles species or recovery of contaminated Use of machinery/supporting equipment Use of machinery/supporting carcasses Creation/Use of New Access Points equipment Use of Vehicles Creation/Use of New Access Points Use of machinery/supporting Creation/Use of Staging Area (on Creation/Use of Staging Area (on equipment Creation/Use of New Access Points Access of personnel by foot traffic Temporary Storage (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination Decanting Decontamination May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Wetlands • Mechanical (non-chemical) sand cleaning (surface, <1 inch) • Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) **BMPs** 1. A wildlife monitoring plan 2. Buffer zones with the concurrence of USFWS. 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. USFWS Lead Office Contact:

Lake Sturg	gec	<u>on</u>		Stat	us	Unde	er Rev	view		Uı	nlisted
Scientific Na	ne	Acipenser fulvescens	S		Critica	ıl Habita	t N/A				
				Habit	at ¹						
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	and Streams Bays and Ponds and Estuaries Lakes Wetlands			Upland Areas				
No		Yes	١	⁄es	Ye	:S	Ye	s	No		No
				States Re	levant						
IL		IN	N	11	М	N		ОН			WI
Х		X	>	<	X	(X			X
High-Risk				Response Ad	ctions an	d Activit	ties				
		May affect, not likel	y to advers	sely affect du	e to insigr	nificant o	r discou	ntable	effects		
Ports, Cana	ls, I	ndustrial Areas		ivers and S Ponds and		s /		В	ays and	Est	uaries
	Waste Handling							• \	Waste Har	ndlin	a
Temp	Temporary S							9			
	IV	lay affect, not likely to	•	ivers and S			BIMPs to	o minir	nize impac	ct	
Ports, Cana	ls, I	ndustrial Areas		Ponds and		o /		В	ays and	Est	uaries
 Booming Skimming Vacuuming Flushing Steam Cleaning Sandblasting Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Decenting Constainment trench Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Deterrence or Use of Use				 Booming Dikes or Berms Construction barriers, pits, and trenches Skimming Vacuuming Vacuuming Flooding Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Decanting 					ng or		
		Spec	cial conside	erations need	led, high l	evel of c	oncern				
			All F	labitats of	Occurre	ence					
		Natural atten Locating, sa		w habitat to r d monitoring:							
4 4 "	11.6	and the state of the		ВМР	s						
 A wildlife monitoring plan Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. USFWS Lead Office Contact: 											

Pallid Stu	<u>rgeon</u>		Stati	us	Enda	ingered (1	990)	55 FR	36641
Scientific Na	me Scaphirhynd	chus albus	•	Critica	al Habita	t N/A	<u> </u>		
			Habita	at ¹					
Shoreline beach/land)	Ports, Canals, In Areas	dustrial Rivers a	nd Streams	ams Bays and Ponds and Estuaries Lakes Wetland				s Upla	and Area
No	Yes	`	Yes No No No						No
			States Re		·			•	
IL	IN	N	ΛI	M	N	Ol	1	V	ΝI
Х									
		High Risk I	Response Ac	ctions an	d Activit	ties			
	May affect	, not likely to advers	sely affect du	e to insig	nificant o	r discountable	effects		
		All H	Habitats of	Occurre	ence				
	e Handling								
• Temp	orary Storage (on	likely to adversely	affect due to i	implemer	ntation of	BMPs to minir	mize impact	ŀ	
Po	rts, Canals, Inc			Implemen	itation or	Rivers and			
 Boom Skimi Vacui Flush Stear Sand Detec Reco Conta Deter Use o Deca 	oil		Culvert Skimmin Vacuum Flooding Flushing Steam C Sandbla Detectic Recove Contain Deterrei Use of N	ning g Cleaning asting on of non-floati ry of non-floati ment of non-flo nce or Hazing /essels nent of buoys	ng or subm ng or subm	erged oil erged oil	oil		
		Special conside	erations need	led, high l	evel of c	oncern			
			Habitats of						
		ural attenuation: allo ating, sampling, an							
			ВМР	s					
 Buffe Spill I Wher collect 	Response Plan than installing or placion installing or placion equipment/maduled/implemented	n. concurrence of USFV at has pre-identified ng temporary struct aterial/structures), e in a way to elimina	staging areas ures or mater ensure that co	rial (i.e., b Instruction	ooms, be n/decons	erms, dikes, cu truction/remov	lvert blocks al plans are	s, or other e in place	^r oil and are

Popeye S	Popeye Shiner			Sta	tus	Unde	r Review	Unlisted		nlisted
Scientific Na	me	Notropis ariommus			Critical Habitat N/A					
	Habitat ¹									
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas
No		No	Υ	'es	N	0	No	No		No
				States R	Relevant					
IL		IN	N	II	M	N	Ol	1		WI
							Х			

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs with Services

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Detection of non-floating or submerged oil
- · Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Use of Vessels
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Scioto Ma	Scioto Madtom			Sta	tus	Enda	ngered (1	975)	75) 40 FR 44149	
Scientific Na	me	Noturus trautmani			Critical Habitat N/A					
	Habitat ¹									
Shoreline (beach/land)	Poi	rts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds Upland A	Areas
No		No	Υ	'es	N	0	No	No	No	
				States R	elevant				·	
IL		IN	N	II	М	N	OH	1	WI	
							X			

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs with Services

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Detection of non-floating or submerged oil
- · Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Use of Vessels
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Sicklefin C	huk	<u>)</u>		Stati	us	Unde	r Review		Unlisted		
Scientific Nan	ne /	Macrhybopsis meeki			Critical Habitat N/A						
				Habita	at¹						
Shoreline (beach/land)	Ports	, Canals, Industrial Areas	Rivers a			Bays and Estuaries		Wetlands	ds Upland Areas		
No		Yes	`	es/es	N	lo	No	No	No		
				States Re			1				
X X		IN	- N	11	IV	IN	Ol	1	WI		
X High-Risk Response Actions and Activities						 'aa					
								ec 1			
		May affect, not likely		•			discountable	effects			
Waste Handling Temporary Storage (on water) May affect, not likely to adversely affect due Ports, Canals, Industrial Areas Booming Skimming Vacuuming Flushing Steam Cleaning Sandblasting Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Decanting						Booming Dikes or Construct Culvert E Skimmin Vacuum Flooding Flushing Steam C Sandbla Detectio Recover Contains Deterres	Rivers and Berms Stion barriers, Blocking g ing Cleaning sting n of non-floati y of non-floati nent of non-flo ice or Hazing essels nent of buoys	Streams pits, and tre	enches erged oil erged oil		

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Sturgeon (<u>Chub</u>		Stat	us	Unde	r Review		Unlisted
Scientific Nan	ne Macrhybopsis gel	da	·	Critic	al Habitat	: N/A		
			Habit	at ¹				
Shoreline (beach/land)	Ports, Canals, Industrial Areas Rivers and Streams			Bays Estu	and aries	Ponds and Lakes	Wetlands	Upland Areas
No	Yes	,	Yes	N	0	No	No	No
			States Re					
IL	IN	N	/II	M	IN	Ol	1	WI
X								
		High-Risk	Response A	ctions an	d Activit	ies		
	May affect, not li	kely to adver	sely affect du	e to insig	nificant or	discountable	effects	
		All H	labitats of	Occurr	ence			
	Handling							
Tempo	orary Storage (on water		offe at due to	:!		DMDs to minin		
Dor			anect due to	impiemer	itation of	Rivers and		
May affect, not likely to adversely affect due Ports, Canals, Industrial Areas Booming Skimming Vacuuming Flushing Steam Cleaning Sandblasting Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Decanting					Culvert E Skimmin Vacuum Flooding Flushing Steam C Sandbla Detection Recover Contains	Berms Stion barriers, Blocking g ing Cleaning sting n of non-floati y of non-floati ment of non-flo	pits, and tre	erged oil erged oil

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Topeka SI	Topeka Shiner			Sta	tus	Enda	ngered (1	998)	98) 63 FR 69008	
Scientific Na	Scientific Name Notropis topeka				Critical Habitat Designated			d		
Habitat ¹										
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds and Lakes	Wetland	ds	Upland Areas
No		No	Y	'es	N	0	Yes	No		No
				States R	Relevant					
IL		IN	M	II	M	N	Ol	1		WI
					>	<				
High-Risk Response Actions and Activities										

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect -	- discuss possible BMPs with Services					
Rivers and Streams	Ponds and Lakes					
 Booming Dikes or Berms Construction barriers, pits, and trenches Culvert Blocking Skimming Vacuuming Flooding Flushing Steam Cleaning Sandblasting Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys Decanting 	 Booming Dikes or Berms Construction barriers, pits, and trenches Skimming Vacuuming Flooding Flushing Steam Cleaning Sandblasting Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Deterrence or Hazing Use of Vessels Deployment of buoys 					

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Alligator Snapping Turtle		Stat	atus Under Review			view	Unlisted				
Scientific Name Macroclemys temmincki		ncki		Critical Habitat N/A			A				
				Habit	at¹						
Shoreline Po (beach/land)			Rivers and Streams		Bays and Estuaries		Ponds and Lakes		Wetlands		Upland Area
Yes Yes		i	Yes		No		Y	es	No		No
IL IN		NI I	States R					Oŀ	LI I		WI
			MI		MN		Ur Ur		1		VVI
X		l l									
		Н	igh-Risk F	Response A	ctions an	d Activit	ies				
	May affe	ect, not likel	y to advers	sely affect du	e to insigr	nificant o	r disco	untable	effects		
Shoreline	c	Poi	rts, Cana	als,	River	s and S	trear	ne	Ponds and Lakes		
Silorenile	J	Indu	ıstrial Ar	eas	IVIVEIS	a a lu S	ucal	113			
 Flooding Flushing Deterrence and Hazing Use of Aircraft Waste Handling 		 Flushing Deterrence and Hazing Use of Aircraft Deployment of buoys Waste Handling 		azing	 Dikes or Berms Culvert Blocking Flushing Deterrence and Hazing Use of Aircraft Deployment of buoys 			g	Dikes or BermsFlushingDeterrence and HazingUse of AircraftWaste Handling		
3					Waste Handling						
Λ	lay affect, r	not likely to	adversely a	affect due to	implemen	tation of	BMPs	to minir	mize impa	ct	
Shoreline	s	Ports, Canals, Industrial Areas		,	Rivers and Streams		ns	Ponds and Lakes			
Booming Dikes or Berms Skimming Vacuuming Sorbents Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vessels Use of machinery/supporting equipment Creation/Use of New Booming Skimmin Vacuum Sorbents Steam Cle Sandbla Manual of oil sed vegetatic Detection submerg Containing of oil sediment, debris, or vegetation Capture contamin recovery carcasse Use of Vessels Use of Vessels Creation/Use of New		ning hing hing hing his Cleaning asting removal / diment, de hion of non-fi ged oil ry of non-fi ged oil ment of no or submer e and care inated sper y of contar hes Vessels Vehicles ery/suppor ent n/Use of N Points n/Use of Si n land) of personr	Cleaning bris, or loating or loat	 Booming Construction barriers, pits, and trenches Skimming Vacuuming Sorbents Steam Cleaning Sandblasting Manual removal / Cleaning of oil sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) 			nning or ng or oil or ted	Booming Construction barriers, pits, and trenches Skimming Vacuuming Sorbents Steam Cleaning Manual removal / Cleaning of oil sediment, debris, or vegetation Detection of non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vessels Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land)			

Temporary Storage (on water) Temporary Storage (on land)	Temporary Storage (on land) Decanting Decontamination	Temporary Storage (on land) Decanting Decontamination	Temporary Storage (on water) Temporary Storage (on land) Decontamination						
Special considerations needed, high level of concern									
All Habitats of Occurrence									
1	Natural attenuation: allow habitat t Locating, sampling, and monitorir								
	BI	MPs							
3. Spill Response Plan4. When installing or p collection equipmen	plan. e concurrence of USFWS. that has pre-identified staging are acing temporary structures or ma t/material/structures), ensure that ted in a way to eliminate or minin	terial (i.e., booms, berms, dikes, construction/deconstruction/rem	culvert blocks, or other oil noval plans are in place and are						

doidea blandingii			Under Review U			Un	nlisted	
		Criti	cal Habitat N/A					
	Habita	at¹						
nals, Industrial Areas	Rivers and Streams		Bays and Ponds Estuaries Lak		i vvetlands		3	Upland Areas
No	Yes		Yes Ye		es Yes			Yes
INI	States Rel			OH		_	\A/I	
IN X	MI X	-	MN X			OH X		WI X
I		Actions and Activities					^	
	o adversely affect due				ıntable	effects		
Rivers and	Bays and		Ponds a				T	Upland
Streams	Estuaries		Lakes		Wetlands			Areas
ikes or Berms ulvert Blocking ushing eterrence and azing se of Aircraft eployment of uoys //aste Handling emporary torage (on ater)	 Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inchemical) sand cleaning and excavation (>1 inchemical) sand excavation (>1 i	nemical) sand eaning (surface, 1 inch) lechanical (non- nemical) sand eaning and excavation (>1 inch) eterrence and azing se of Aircraft eployment of uoys //aste Handling emporary Storage		craft y on	Deterrence and Hazing Use of Aircraft Use of Vessels Waste Handling		•	Deterrence and Hazing Use of Aircraft Waste Handling
	versely affect due to in	mpleme			o minir	mize impact	t	
Rivers and Streams	Bays and Estuaries		Ponds a Lakes		W	etlands		Upland Areas
coming construction carriers, pits, and enches kimming cacuuming crbents team Cleaning candblasting canual removal / leaning of oil ediment, debris, regetation etection of non- coating or cubmerged oil ecovery of non-	 Booming Construction barriers, pits, and trenches Skimming Vacuuming Sorbents Manual removal / Cleaning of oil sediment, debris, vegetation Detection of nonfloating or submerged oil Recovery of nonfloating or submerged oil Containment of popularing or 	or •	sediment, debris, or vegetation Detection	on its, nes g ing of oil	Ski Mee (not che sar (su inct Mee (not che sar and ext (>1 Maren Cle	emical) and cleaning arface, <1 h) achanical an- emical) and cleaning d cavation i inch) anual anoval / eaning of	•	Booming Skimming Mechanical (non- chemical) sand cleaning (surface, <1 inch) Mechanical (non- chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment,
ete oai ubi ec	egetation ection of non- ting or merged oil overy of non-	egetation ection of non- ting or merged oil overy of non- ting or ting or containment of non-floating or submerged oil Containment of non-floating or	egetation ection of non- ting or merged oil overy of non- ting or merged oil overy of non- ting or submerged oil overy of non- ting or submerged oil overy of non- floating or submerged oil overy of non- floating or	egetation ection of non- ting or merged oil overy of non- ting or merged oil overy of non- ting or merged oil overy of non- ting or submerged oil overy of non- ting or submerged oil overy of non- floating or submerged oil	egetation ection of non- ting or merged oil overy of non- ting or merged oil overy of non- ting or merged oil overy of non- ting or submerged oil overy of non- floating or overy of non- overy of	regetation ection of non- ting or merged oil overy of non- ting or submerged oil	floating or submerged oil Recovery of nonfloating or submerged oil Recovery of nonfloating or submerged oil Recovery of nonfloating or submerged oil Containment of non-floating or submerged oil Recovery of nonfloating or submerged oil	regetation ection of non- ting or merged oil overy of non- ting or submerged oil

contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/suppor ting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land)	non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of Vehicles Use of machinery/suppor ting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Decanting Decontamination	contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/supportin g equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decanting Decontamination	non-floating or submerged oil Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vessels Use of vessels Use of New Access Points Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontaminati on	non-floating or submerged oil Recovery of non-floating or submerged oil Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontaminat ion	care of contaminated species or recovery of contaminated carcasses Use of Vehicles Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontaminat ion
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Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Copperbelly Watersnake, 62 FR 4183 N. DPS **Status** Threatened (1997) **Critical Habitat** N/A Scientific Name Nerodia erythrogaster neglecta Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Areas Estuaries Lakes No No No No Yes Yes Yes States Relevant WI IL IN ΜI MN OH Χ Χ Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects Wetlands **Upland Areas** Deterrence and Hazing Deterrence and Hazing Use of Vessels Use of Aircraft Waste Handling Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ponds and Lakes Wetlands **Upland Areas** Booming Dikes or Berms · Construction barriers, pits, and trenches Skimming Booming • Mechanical (non-chemical) sand Mechanical (non-chemical) sand cleaning (surface, <1 inch) cleaning (surface, <1 inch) • Mechanical (non-chemical) sand Mechanical (non-chemical) sand cleaning and excavation (>1 inch) cleaning and excavation (>1 inch) Manual removal / Cleaning of oil Manual removal / Cleaning of oil sediment, debris, or vegetation sediment, debris, or vegetation Detection of non-floating or Capture and care of contaminated species or recovery of contaminated · Dikes or Berms submerged oil Recovery of non-floating or carcasses · Access of personnel by foot traffic Use of Vehicles submerged oil Containment of non-floating or • Creation/Use of New Access Points submerged oil Creation/Use of Staging Area (on Capture and care of contaminated species or recovery of contaminated Access of personnel by foot traffic Temporary Storage (on land) Creation/Use of New Access Points Decontamination Creation/Use of Staging Area (on land) Access of personnel by foot traffic Decontamination Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) **BMPs** A wildlife monitoring plan Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

4.	When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil
	collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are
	scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their
	habitats.

Eastern Massasauga **Status** Threatened (2016) 81 FR 67193 Scientific Name Sistrurus catenatus **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** Estuaries (beach/land) Areas Lakes No No No No Yes Yes Yes States Relevant ОН WI IL IN MI MN Χ Χ Χ **High-Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects Wetlands **Upland Areas** · Deterrence and Hazing · Deterrence and Hazing Use of Vessels · Use of Aircraft Waste Handling Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Ponds and Lakes Wetlands **Upland Areas** Booming · Dikes or Berms Booming Construction barriers, pits, and trenches Mechanical (non-chemical) sand Skimming cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning Mechanical (non-chemical) sand (surface, <1 inch) cleaning and excavation (>1 inch) Mechanical (non-chemical) sand cleaning Manual removal / Cleaning of oil and excavation (>1 inch) sediment, debris, or vegetation Manual removal / Cleaning of oil · Capture and care of contaminated sediment, debris, or vegetation species or recovery of contaminated · Dikes or Berms Detection of non-floating or submerged oil carcasses · Access of personnel by foot traffic Recovery of non-floating or submerged oil · Use of Vehicles Containment of non-floating or · Creation/Use of New Access Points submerged oil Creation/Use of Staging Area (on Capture and care of contaminated species or recovery of contaminated Access of personnel by foot traffic Temporary Storage (on land) Creation/Use of New Access Points • Decontamination Creation/Use of Staging Area (on land) Access of personnel by foot traffic Decontamination Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT) **BMPs** A wildlife monitoring plan Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. USFWS Lead Office Contact:

Illinois Chor	us Frog		Stat	us	Und	er Re	view		U	nlisted
Scientific Name	Pseudacris illinoensis	s		Critica	ıl Habita	at N/A	4			
			Habit	at¹						
Shoreline (beach/land)	rts, Canals, Industrial Areas	Rivers a	nd Streams Bays and Estuaries P				ls and kes	Wetland	ds	Upland Areas
No	No	`	Yes	N)	Y	es	Yes		Yes
			States Re	levant						
IL	IN		MI	M	N		OF	1		WI
X										
	Н	igh-Risk I	Response A	ctions an	d Activi	ities				
	May affect, not likel	y to advers	sely affect du	e to insigi	nificant o	or disco	untable	effects		
Rivers	and Stream		Ponds a	nd Lake	es		Wet	lands/U	pla	nd Areas
Culvert Disalina		• D	eterrence an	d Hazing			Data		:	
Culvert BlockingDeployment of bu	ovs	• U	lse of Vessels	3			Deterrer Use of V	nce and Ha ressels	azın	9
. ,	<u> </u>		emporary sto							
	May affect, not likely to and Streams	adversely	Ponds a			T BMPs				nd Areas
 Skimming Vacuuming Sorbents Flushing Steam Cleaning Sandblasting Manual removal / debris, or vegetati Detection of non-f Recovery of non-f Containment of noil Deterrence and H Capture and care or recovery of confuse of Aircraft Use of Vessels Use of Vessels Use of machinery Creation/Use of N Creation/Use of S Natural Attenuation Naturally version 	loating or submerged of loating or submerged of confloating or submerged azing of contaminated species taminated carcasses /supporting equipment lew Access Points taging Area (on land) on — allow habitat to while monitoring g, and monitoring: Air, des SCAT) nel by foot traffic ge (on water)	• D C C C C C C C C C C C C C C C C C C	cooming Dikes or Berm Construction becomes Skimming Corbents Clooding Clushing Clashing Clashing Clandblasting Cla	arriers, ping al / Clean ris, or veg con-floating on-floating on-floating on floating on f	ing of oi etation g or g or tting or r d orting ccess Area foot	• II • I	renches Skimmir Vacuum Sorbents Flooding Flushing Mechanic cleaning Mechanic cleaning Manual sedimen Detectio submerg Containr submerg Capture species carcasse Creation Creation and) Access o Waste H Decantir	Berms ction barrie g ing ing ical (non-c (surface, ical (non-c and exca removal / (it, debris, (in of non-fl ged oil y of non-fl ged oil and care or recover es i/Use of St landling	chen <1 i chen vatio Clea or ve loati oati on-flo of co ry of ew / tagir	nical) sand nch) nical) sand on (>1 inch) aning of oil egetation ng or

Ponds and Lakes / Wetlands / Upland Areas

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan. Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Spotted To	urtl	<u>e</u>		Stat	us	Unde	er F	Review		L	Inlisted		
Scientific Nar	me	Clemmys guttata			Critical	Habita	at	N/A					
				Habit	at ¹								
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers a	nd Streams	Bays a Estuari			onds and Lakes	Wetl	ands	Upland Areas		
No No			,	Yes	Yes			Yes	Y	es	Yes		
				States Re	elevant								
IL		IN		MI	M	N		0	Н		WI		
Χ		X		Χ				×	(
		н	igh-Risk	Response A	ctions and	Activi	ties						
		May affect, not likel	y to adver	sely affect du	e to insignif	ficant o	or dis	scountable	effects	;			
Rivers ar	nd	Bays an											
Streams		Estuarie		Ponds ar	nd Lakes		V	/etlands		Ul	oland Areas		
 Dikes or Berms Culvert Blocking Flushing Deterrence and Hazing Use of Aircraft Deployment of buoys Waste Handling Temporary Storage (on water) 		Hazing Use of Aircraf Deployment c Waste Handli Temporary St (on water)	d ace, <1 ann- d 1 inch) ad t f buoys ag orage	 Flushing Deterrenc Hazing Use of Air Waste Ha Temporar (on water) 	craft ndling y Storage	 Deterrence and Hazing Use of Aircraft Use of Vessels Waste Handling 				 Deterrence and Hazing Use of Aircraft Waste Handling 			
	M	ay affect, not likely to	adversely	affect due to	implementa	ation of	ВМ	Ps to minin	nize im	pact			
Rivers ar Streams Booming		Bays an Estuarie Booming		Ponds ar	nd Lakes		V	/etlands		Ul	oland Areas		
 Construction be pits, and trend Skimming Vacuuming Sorbents Steam Cleanin Sandblasting Manual remove Cleaning of oil sediment, debit vegetation Detection of nufloating or submerged oil Recovery of nufloating or floating floating	ng /al/ I oris, o	pits, and trend Skimming Vacuuming Sorbents Manual remov Cleaning of oi sediment, det vegetation	ches /al / I oris, or on- I on- I	pits, and t Skimming Vacuumin Sorbents Steam Cle Sandblast Manual re Cleaning of	ion barriers renches g eaning ing moval / of oil debris, or of non-	• S • N C C C C C C C C C C C C C C C C C C	Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation			Ski Me che cle <1 Me che cle che cle cki cle exc Ma Cle sec vec Ca cor	Booming Skimming Mechanical (non- chemical) sand cleaning (surface, <1 inch) Mechanical (non- chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Capture and care of contaminated species or recovery of contaminated carcasses Use of Vehicles		
 submerged oil Containment of floating or submerged oil 	of nor	floating or submerged oi Capture and contaminated		 Recovery floating or submerge 		• F				of o			

 Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Decanting Decontamination 	species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decanting Decontamination	Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Use of Vessels Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination	Containment of non-floating or submerged oil Capture and care of contaminated species or recovery of contaminated carcasses Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Decontamination	Creation/Use of New Access Points Creation/Use of Staging Area (on land) Access of personnel by foot traffic Temporary Storage (on land) Decontamination
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All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Streamsid</u>	e S	<u>alamander</u>		Stat	us	Unde	er Re	view	U	Inlisted
Scientific Nar	ne	Ambystoma barbouri			Critic	ı al Habita	at N/	A		
				Habit	tat ¹					
Shoreline (beach/land)	Ports	s, Canals, Industrial Areas	Rivers a	nd Streams		Bays and Ponds an Estuaries Lakes			Wetlands	Upland Areas
No		No	⁄es	N	0	١	No.	Yes	Yes	
				States Re	elevant					
IL	IN	MI		MN			OH	WI		
	X	interpretati		-4'	A 411	41		Χ		
				Response A						
		May affect, not likel	y to advers			nificant o	or disco	untable		
		Streams		Wetla	ands				Upland A	reas
Use ofDeploy		sels t of buoys		Use of Ves	وماد			•	Skimming	
		Storage (on water)		OSE OF VES	3013			•	Deterrence a	and Hazing
	Ma	ay affect, not likely to	adversely	affect due to	implemer	ntation of	f BMPs	to minir	mize impact	
	Ri	vers and Streams	3				U	Ipland	Areas	
<1 inc Mecha excava Manua vegeta Detect Recov Contai Deterr Captur recove Use of Creati Creati Waste	ming nts ng	(non-chemical) sand (non-chemical) sand (>1 inch) noval / Cleaning of oil f non-floating or subm of non-floating or subm or Hazing d care of contaminate contaminated carcas cles hinery/supporting equals se of New Access Poil se of Staging Area (or	cleaning a sediment, nerged oil nerged oil ubmerged d species ses uipment nts	and debris, or oil		Mechar <1 inch Mechar excava Manual vegetat Capture recover Use of Creatio Creatio	or Bermuction benical (no) nical (no) nical (no) nical (no) remov ion e and co y of co Vehicle n/Use of of pers Handlir rary Sto	parriers, on-chen on-chen inch) al / Clea are of contamina es of New / of Stagir sonnel big orage (o	nical) sand cleaning of oil secontaminated steed carcasses Access Points ng Area (on la	eaning (surface, eaning and diment, debris, species or
Decon	ntamir									
		Spec		erations need			concern	1		
		Not well atten-		Habitats of w habitat to			while m	onitorin	n	

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. 2. 3.

- A wildlife monitoring plan.

 Buffer zones with the concurrence of USFWS.

 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

 When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitate habitats.

Wood Tur	le			Stat	ıs	Unde	r Rev	view		Ur	nlisted
Scientific Nar	ne	Glyptemys insculpta			Critica	ıl Habita	t N/A				
				Habit	at ¹						
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers a	nd Streams	Bays Estua		Ponds Lake		Wetland	ds	Upland Areas
No		No	`	es	No)	No)	Yes		Yes
				States Re	levant						
IL		IN		MI		MN			ОН		WI
				X		Х			X		Х
		H	ligh-Risk F	Response Ad	tions an	d Activit	ies				
		May affect, not like	ly to advers	sely affect du	e to insigr	nificant o	r discou	ntable	effects		
Rivers	and	Streams		Wetla	nds				Upland	d Ar	eas
 Flushing Deterrence or Use of Aircraft Deployment o Waste Handlir Temporary Sto 	f buo	ys	Use ofUse of	ence or Hazii Aircraft Vessels Handling	ng		• (Jse of	ence or Ha Aircraft Handling	azing	
	Ma	ay affect, not likely to	adversely a	affect due to	mplemen	tation of	BMPs to	o minir	nize impad	ct	
Rivers	and	Streams		Wetlaı	nds	Upland					eas
 Manual remove sediment, debto Detection of new submerged oil Recovery of new submerged oil Containment of submerged oil Capture and of species or recordances Use of Vessel Use of well cleared of the submerged oil 	on-ch ace, < on-ch excav al / C rris, o on-flo on-flo on-flo ses ery/s	nemical) sand (1 inch) nemical) sand (ation (>1 inch) cleaning of oil r vegetation cating or n-floating or f contaminated r of contaminated upporting w Access Points	cleanin Mechai cleanin Manua sedime Detecti submei Contair submei Captur species carcass Creatio Creatio land) Access Tempo	ing nical (non-chi g (surface, < nical (non-chi g and excava l removal / Cl ent, debris, or on of non-floa rged oil ery of non-floa rged oil enent of non- rged oil e and care of s or recovery	1 inch) emical) sa ation (>1 inch) emical) sa ation (>1 inch) eaning of vegetation ating or ating or floating or contamin of contam v Access ging Area by foot tr	and nch) oil n r r ated ninated Points (on	SION SECOND	eaning echan eaning anual edimen apture pecies arcasse se of V reation reation nd) ccess empora	ig ical (non-c (surface, ical (non-c and excar removal / (and care of or recover es /ehicles //Use of No	<1 in the month of the control of control of control of control of the control of	nch) ical) sand in (>1 inch) ning of oil getation intaminated contaminated cccess Points g Area (on

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Canada L	Canada Lynx					Threatened (2000			000)	65 FR 1605		
Scientific Na	Lynx canadensis			Critical Habitat Designated								
	Habitat ¹											
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams		. ,		s and Wetlan		s	Upland Areas	
No		No	1	No	N	0	No	No No			Yes	
	States Relevant											
IL		IN		MI		MN			ОН		WI	
				Χ		X					Χ	

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- · Access of personnel by foot traffic
- Waste Handling
- Decontamination
- Temporary Storage (on land)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Gray Bat				Statı	ıs	Enda	ang	gered (1	976)	41 FI	R 17736
Scientific Nam	ne	Myotis grisescens			Critic	al Habita	at	N/A			
				Habita	at ¹						
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers and Streams Bays and Estuaries			Po	onds and Lakes Wetlan		ds Up	oland Areas	
No		No	١	⁄es	N	0		Yes	No		Yes
				States Re	levant						
IL		IN		MI		MN			ОН		WI
Х		X									
				Response Ac							
		May affect, not likely	y to advers				or dis	scountable			
Rivers	and	Streams		Ponds an	d Lake	S			Upland	d Areas	3
 Dikes or Berms Construction barriers, pits, and trenches Culvert Blocking Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses Waste Handling 			trench Culver Skimm Vacuu Sorbei Floodii Flushii Steam Mechacleanii Manuasedimo Deterr Captui specie carcas Waste	t Blocking hing ming ming hts hg Cleaning hincal (non-ch hg (surface, < hincal (non-ch hg and excav. hl removal / Cent, debris, or hence or Hazir here and care or his or recovery hises Handling	emical) s 1 inch) emical) s ation (>1 leaning o vegetati ng f contami of conta	eand inch) of oil on nated minated		Waste	ent, debris, Handling	, or vege	•
		ay affect, not likely to					BM	IPs to minir			
 Sandblasting Use of Aircraft Use of Vessels Use of Vehicle Use of machine equipment Creation/Use of land) 	 Use of Vessels Use of Vehicles Use of Meximum Use of Aircraft Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Access of personnel by foot training Use of Aircraft Creation/Use of Staging Area (on land) Access of personnel by foot training 						minated taminated ss Points rea (on ot traffic				
		Spec	ial conside	erations need	ed, high	level of c	onc	ern			
			All F	labitats of	Occurr	ence					

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- Buffer zones with the concurrence of USFWS.
- Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Gray Wolf	Gray Wolf				us	Delisted Due to Recovery			0	Unlisted		
Scientific Na	Canis lupus			Critica	al Habita	t N/A	N/A					
	Habitat ¹											
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds Lake		Wetlands	S Upland Are	eas	
No		No	1	No	N	О	No	No No		Yes		
				States Re	elevant					·		
IL	IL IN MI MN				ОН	WI						
				Х	X					Х		

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Decontamination
- Temporary Storage (on land)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Indiana B	Indiana Bat					Endangered (196			967)	32	2 FR 4001	
Scientific Na			Critical Habitat Designated									
	Habitat ¹											
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua				Wetland	ds	Upland Areas	
No		No	1	No	N	No No		1	Yes		Yes	
				States R	elevant							
IL		IN		MI		MN		ОН			WI	
Х	X X		Χ					Χ				

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- · Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Little Brow	<u>le Brown Bat</u>			Stat	Status Under Review			Unlisted		
Scientific Na	me	Myotis lucifugus			Critica	al Habita	Habitat N/A			
Habitat ¹										
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers ar	nd Streams	Bays Estua		Ponds Lake		Wetlands	Upland Areas
No		No	1	No	N	0	No)	No	Yes
				States Re	elevant					
IL		IN		MI	MN OH		ОН	WI		
X		Х		Χ		Χ			Χ	Х

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- · Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Northern	Northern Bog Lemming			Stat	tus	S Under Review			w Unlisted		
Scientific Na	me	Synaptomys borealis			Critica	al Habita	tat N/A				
	Habitat ¹										
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers a	nd Streams		Bays and Ponds and Estuaries Lakes Wetl		Wetlands	Upland Areas		
No		No	ı	No	N	0	No)	Yes	No	
				States R	elevant						
IL		IN		MI	MN			ОН	WI		
	·					Χ					

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Culvert Blocking
- Flooding
- Flushing
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Use of Vessels
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Northern Long-eared Bat Threatened (2015) **Status** 80 FR 17973 Scientific Name Myotis septentrionalis **Critical Habitat** N/A Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** Estuaries (beach/land) Areas Lakes No No No No No Yes Yes States Relevant IN MN ОН IL ΜI WI Χ Χ Χ Χ Χ Χ

High-Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Plains Sp	Plains Spotted Skunk			Stat	us	us Under Review			ew Unlisted		
Scientific Name Spilogale puturius interrupta				Critica	al Habita	t N/A					
	Habitat ¹										
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Ponds and Estuaries Lakes Wetl			Wetlands	Upland Areas		
No		No	1	No	N	0	No)	No	Yes	
				States Re	elevant						
IL		IN		MI	MN OH		ОН	WI			
						Χ					

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Prairie Gr	Prairie Gray Fox			Stat	tatus Under Review			ew Unlisted		
Scientific Na	me	Urocyon cinereoarge	nteus ocyt	hous	Critica	Critical Habitat N/A				
Habitat ¹										
Shoreline (beach/land)	Por	ts, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Ponds and Estuaries Lakes			Wetlands	Upland Areas	
No		No	1	No	N	0	No)	No	Yes
				States Re	elevant					
IL	•	IN		MI	MN			ОН	WI	
						Χ				X

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan.
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

<u>Tricolored</u>	Ba	<u>ıt</u>		State	us	Unde	er Re	view		U	nlisted
Scientific Nam	пе	Perimyotis subflavus			Critic	al Habita	nt N/	4	•		
				Habit	at ¹						
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Estuaries			ls and kes	Wetlands		Upland Areas
No		No	Υ	'es	N	0	Yes No Yes			Yes	
			States Relevant					_			
IL		IN		MI		MN			ОН		WI
Х		X		Х		Х			Х		X
		Н	igh-Risk F	Response Ad	tions ar	d Activi	ties				
		May affect, not likel	y to advers	sely affect du	e to insig	nificant c	r disco	untable	effects		
Rivers and Streams				Ponds and	Lakes	;			Upland	l Ar	eas
Construction be trenches Culvert Blockin Skimming Vacuuming Sorbents Flooding Flushing Steam Cleanin Mechanical (no cleaning and e Manual remova sediment, debr Deterrence or l Capture and ca species or reco carcasses Waste Handlin	g g pon-cl cce, con-cl xcav al / C ris, o Hazi are c	nemical) sand <1 inch) nemical) sand vation (>1 inch) cleaning of oil r vegetation ng of contaminated v of contaminated	trenche Skimmi Vacuur Sorben Floodin Flushin Steam Mechar cleanin Mechar cleanin Manual sedime Capture species carcass Waste	es ing ming ts g g Cleaning nical (non-ch- g (surface, < nical (non-ch- g and excava I removal / Cl nt, debris, or ence or Hazin e and care of s or recovery ses Handling	-chemical) sand avation (>1 inch) / Cleaning of oil , or vegetation						
		ay affect, not likely to					BMPs	to minir			
Rivers and Streams Sandblasting Use of Aircraft Use of Vessels Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Temporary Storage (on land) Decontamination			 Sandbl Use of Use of Use of Use of Greation Creation Tempor 	Aircraft Vessels Vehicles machinery/su	upporting v Access ging Area	Points a (on	Upland Areas Booming Skimming Deterrence or Hazing Capture and care of contaminate species or recovery of contaminate carcasses Use of Aircraft Creation/Use of New Access Poi Creation/Use of Staging Area (or land) Access of personnel by foot traffi Temporary Storage (on land) Decontamination				ontaminated contaminated Access Points ng Area (on ny foot traffic
		Spec	cial conside	erations need	ed. hiah	level of c			mination		
		Орес		labitats of			31100111				
		Natural atten	uation: allo	w habitat to r	ecover n	aturally v					

BMPs

- 1. 2. 3.

- A wildlife monitoring plan.

 Buffer zones with the concurrence of USFWS.

 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

 When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitate habitats.

Eastern Black Rail Status Threatened (2020) 85 FR 63764 Scientific Name Laterallus jamaicensis ssp. jamaicensis **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** (beach/land) Estuaries Areas Lakes No No No No No Yes No States Relevant MN IL IN ΜI OH WI Χ Χ Χ Χ Χ

High Risk Response Actions and Activities

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- · Dikes or Berms
- · Construction barriers, pits, and trenches
- Skimming
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- · Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- · Use of Vessels
- · Creation/Use of New Access Points
- · Access of personnel by foot traffic
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- 1. A wildlife monitoring plan
- 2. Buffer zones with the concurrence of USFWS.
- 3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Golden-w	inge	ed Warbler		Stat	us	Unde	er Rev	iew		Unlisted	
Scientific Na	me	Vermivora chrysopte	ra		Critical Habitat N/A						
				Habit	abitat ¹						
Shoreline (beach/land)	Port	s, Canals, Industrial Areas	Rivers ar	nd Streams	Bays and Estuaries Ponds and Lakes Wetland		I Wetian		ls	Upland Areas	
No		No	ı	No	N	0	No)	Yes		Yes
	•			States Re	levant		•		•		
IL		IN		MI		MN			ОН		WI
X		X		Χ		X			Χ		X
		Н	igh Risk F	Response A	tions an	d Activi	ties				
		May affect, not likel	y to advers	sely affect du	e to insig	nificant o	or discour	ntable	effects		
		Wetlands					Up	land	Areas		
Waste Handling Waste Handling											
May affect, not likely to adversely affect due to implementation of BMPs to minimize impact											
	Wetlands						Up	land	Areas		
Booming Dikes or Bel Construction Skimming Flooding Flushing Mechanical inch) Mechanical (>1 inch) Manual rem vegetation Detection of Recovery of Deterrence Capture and contaminate Use of Aircr Use of Vess Creation/Us Access of p	avation , or	 Cons Skim Mec inch Mec (>1 i Man vege Capt cont Use Crea Acce Tem 	s or Benstruction mining hanical () hanical (nch) ual remo etation errence of daminated of Aircra ation/Use ess of pe	barriers, non-cher non-cher oval / Cle or Hazing care of c d carcass aft e of New e of Stagi ersonnel to	mical) mical) aning contam ses Acces ng Are	sand clear of oil sedir ninated spe s Points ea (on land	ning ning men	y (surface, <1 y and excavation t, debris, or s or recovery of			
		Spec	cial conside	erations need	ed, high I	evel of c	concern				
		Spec	iai conside	erations need	eu, nigh i	evel of C	oncem				

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
 Buffer zones with the concurrence of USFWS.
 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
 When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Piping Plover		Sta	atus	Enda	ngere	ed (1	985)	50 FR 50726
Scientific Name Charadri	us melodus		Critic	 al Habita		ignated		
		На	bitat ¹					
Shoreline (beach/land) Ports, Canals Area	· IR	ivers and Stream	nd Streams Bays and Estuaries		Ponds and Lakes		Wetland	ds Upland Areas
Yes No		Yes	Ye	es	Ye	S	No	No
			Relevant					
IL .	IN	MI		MN			ОН	WI
X	Χ	X		X			Х	X
	High	Risk Response	Actions ar	nd Activit	ies			
May aff	ect, not likely to	adversely affect	due to insig	nificant o	r discou	ntable	effects	
		All Habitats	of Occurr	ence				
		Waste	Handling					
May affect	not likely to adv	ersely affect due		ntation of	BMPs to	o minir	nize imna	nt .
Shorelines	1	nd Streams	1	and Es				ds and Lakes
 Booming Dikes or Berms Skimming Vacuuming Sorbents Flooding Flushing Steam Cleaning Sandblasting Mechanical (non-chemical) sand cleaning (surface, <1 inch) Mechanical (non-chemical) sand cleaning and excavation (>1 inch) Manual removal / Cleaning of oil sediment, debris, or vegetation Deterrence or Hazing Capture and care of contaminated species or recovery of contaminated carcasses Use of Aircraft Use of Vehicles Use of machinery/supporting equipment Creation/Use of New Access Points Creation/Use of Staging Area (on land) Deployment of buoys Access of personnel by 	and trench Skimming Vacuuming Sorbents Flooding Flushing Steam Clea Sandblasti Mechanica sand clean inch) Mechanica sand clean excavation Manual rer of oil sedim vegetation Detection of submerged Recovery of submerged Deterrence Capture an	aning aning I (non-chemical) ing (surface, <1 I (non-chemical) ing and (>1 inch) moval / Cleaning ment, debris, or of non-floating or I oil of non-floating or I oil or Hazing d care of med species or f contaminated araft sels sicles	Construent and tree Skimm Vacuu Sorber Floodii Mechas and control Mec	or Berms ruction ba enches ling ming nts ng inical (nor eleaning (se inical (nor eleaning a etion (>1 in eleaning of ery of nor erged oil ence or H ere and can eninated sp ery of cont ses inicated s	n-chemic surface, n-chemic nd nch) I / Clean debris, c n-floating lazing re of pecies of teaminate	cal) <1 cal) ing or g or	Construand tre Skimmi Vacuur Sorben Floodin Flushin Steam Sandbl Mechar sand cl inch) Mechar sand cl excava Manual of oil se vegetat Detecti submer Capture contam recover curcass Use of Use of Use of	or Berms Juction barriers, pits, Inches Juction Ju

 Decontamination 	 Deployment of buoys 	Decanting	 Deployment of buoys
	Temporary Storage (on	Decontamination	Temporary Storage (on
	water)		water)
	Temporary Storage (on		Temporary Storage (on
	land)		land)
	Decanting		Decontamination
	Decontamination		

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- 2.
- Buffer zones with the concurrence of USFWS.
 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Rufa Red Kn	<u>ot</u>			Stat	us	Thre	atene	d (20)14)	79	FR 73705
Scientific Name	Calidiris	canutus rufa			Critical Habitat N/A						
				Habit	at¹						
Shoreline (beach/land)	rts, Canals Area	-	Rivers ar			s and Ponds laries Lake		I Wetlands		3	Upland Areas
Yes	No		Y	'es	Yes Yes			S	No		No
				States Re	elevant						
IL		IN MI				MN			ОН		WI
Х		Χ		Χ		Χ			Χ		Х
		Н	igh Risk F	Response A	ctions an	d Activi	ties				
	May aff			ely affect du				ntable	effects		
Shoreline	s	Rivers	and Str	eams	Bays	and E	stuaries	s	Pond	s ar	nd Lakes
Dikes or Ber Skimming Vacuumin Access of personn traffic Waste Handl	Skimming accuuming personnel by foot traffic ste Handling			ng	VVa	Boomir Skimmi Vacuum aste Har	ng ing ndling	o minir	V Wa	′acuι ste F	ming ming uming Handling
Shoreline			and Str				stuaries				nd Lakes
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Creation/Use of Staging	Temporary Storage (on	Creation/Use of Staging
	. , , , ,	9 9
Area (on land)	land)	Area (on land)
Deployment of buoys	 Decanting 	 Deployment of buoys
Temporary Storage (on	 Decontamination 	 Temporary Storage (on
water)		water)
Temporary Storage (on		 Temporary Storage (on
land)		land)
Decanting		 Decontamination
Decontamination		

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally Locating, sampling, and monitoring: air, land, water (includes SCAT)

BMPs

- A wildlife monitoring plan
- 2.
- Buffer zones with the concurrence of USFWS.

 Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
- When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

Whooping Crane (Non-essential) **Endangered (1978) Status** 35 FR 8491 Scientific Name Grus americana **Critical Habitat** Habitat1 Shoreline Ports, Canals, Industrial Bays and Ponds and Rivers and Streams Wetlands **Upland Areas** Estuaries (beach/land) Areas Lakes No No No No No Yes Yes States Relevant MN IL IN ΜI OH WI Χ Χ Χ Χ Χ Χ **High Risk Response Actions and Activities** May affect, not likely to adversely affect due to insignificant or discountable effects Wetlands Waste Handling May affect, not likely to adversely affect due to implementation of BMPs to minimize impact Wetlands **Upland Areas** Booming Skimming Flooding Flushing Sandblasting • Mechanical (non-chemical) sand cleaning (surface, <1 Mechanical (non-chemical) sand cleaning and excavation (>1 inch) · Manual removal / Cleaning of oil sediment, debris, or · Deterrence or Hazing vegetation Capture and care of contaminated species or recovery of · Detection of non-floating or submerged oil contaminated carcasses · Recovery of non-floating or submerged oil Deterrence or Hazing · Capture and care of contaminated species or recovery of contaminated carcasses Use of Aircraft · Use of Vessels · Creation/Use of New Access Points · Access of personnel by foot traffic Decontamination Special considerations needed, high level of concern All Habitats of Occurrence Natural attenuation: allow habitat to recover while monitoring naturally Locating, sampling, and monitoring: air, land, water (includes SCAT) **BMPs** A wildlife monitoring plan Buffer zones with the concurrence of USFWS. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their

habitats.

USFWS Lead Office Contact: